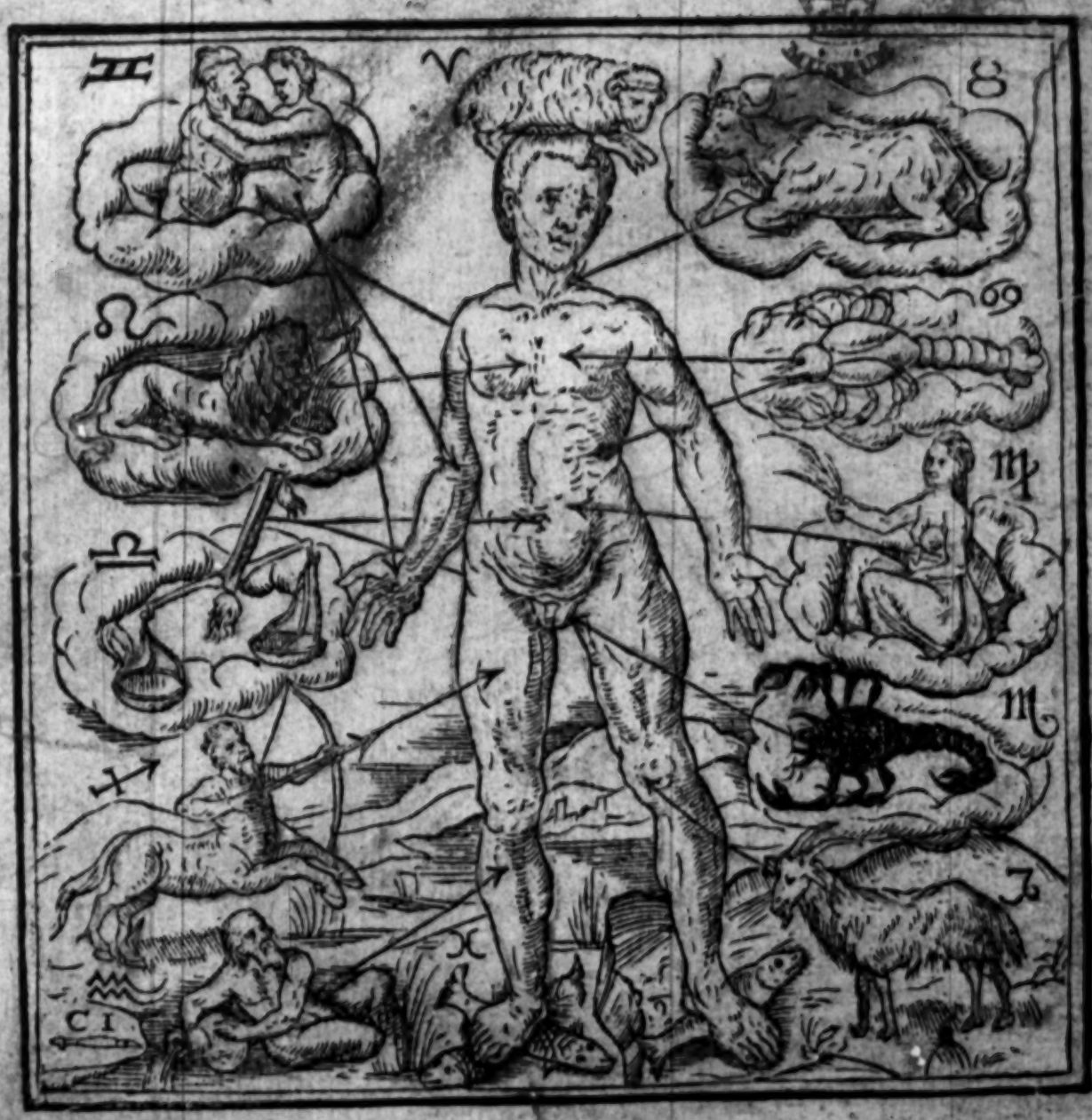
A PROGNOSTICATION

euerlasting of right good effect, frutefully augmented by the author, containing plaine, briefe, pleasant, chosen rules to iudge the weather, by the *Sunne, Moone, Starre, Cometes, Raynbowe, Thunder, Cloudes,* with other extraordinary tokens, not omitting the *Aspectes of planetes,* with a briefe iudgement for euer of *plentie, Lacke, Sickneſſe, Dearth, Warres &c.* opening also many *naturall cauſes* worthy to be knowen To theſe and other nowe at the laſt are adioyned diuers general pleasant *Tables,* with many compendious rules, easye to be had in memory, manifolde wayes profitable to all manner menne of vnderſtandynge: publiſhed by *Leonarde Digges,* gentleman.



Imprinted at London in Fletestrete by Thomas Marshe nere to S Dunstons Churche.

Anno, 1567.

To the right honorable Sir Edward Fines, of the noble order of the Garter Knight, Lord Clinton and Saye &c. Leonard Digges wisseth continuance of health, and dailye encrease of honoure.

BRITISH MUSEUM

After my trouble (ryght honorable and my singular good Lord) my duety made me careful to procure that some frute of my studies might declare me thankfully mynded toward your Lordship amõg other honorable, to whom I owe my self with al my endeuoure and fruites of studye. For the performaunce wherof, not only your Lorshippes talke moued of a *Prognostication* semed then to make that argument fittest, but also the manifest imperfections, and manifold errors yearely cõmitted did craue the ayde of some that were both willing and able to performe the truth in like matters. As I thought it then for these causes worthy the labour truly and briefly to collect many thinges both necessarye and pleasaunt, as wel for Nobility as other, & to adioyne them to my generall *Prognostication* imprinted in the peare 1553. augmentinge diuers waies the same, & more orderly placing such as wer before set forth: so sithens calling to minde other right pleasaunt rules & conclusions, likewise pertaining to the purpose aforesayde, & bearinge still in minde a like thanckefull remẽbraunce of your goodnesse, I thought it meete at this edition to encrease it ones again, and by presenting it vnto your honour, declare the continuaunce of my riggt hearty zeale to acknowledge your goodnesse. As therfore in the other your Lordship receiued in one lytle Booke be infallible rules taughte for euer a truthe of suche thinges as before were put forthe in many volumes by other, eche for one yeares profite only, whereby the authors were of necessitie compelled to make a yearely renewing of thẽ with yearely encrease of errors, and further you had in it diuers other conclusions general of none before attempted: so in this your Lordshyppe shall yet receyue the same in sundrye places more plainly and fully set fourth, & other not vnprofitably adioyned, as in perusing shall euidently appeare. These with my most humble thãckes for your great goodnesse al maner wayes declared towarde me, accordyng to my duetye I do present vnto your honour, and beseeche you in good worth to receaue: & haue willed them to passe vnder protection of your Lordshipps name, that if to any man any commoditie shal ensue therby, suche as receiue it may haue cause to further me in yelding thankes to your honoure.

To the Reader,

THauoyde (gentle Reader) the yearelye care trauailes, and paines of other, with the con fusions, repugnances, and manifolde erro; partlye by negligence, and oft throughe igno raunce committed: I haue againe briefelye set forth a *Prognostication generall*, for euer to tak effect, adioynynge therto diuers profitable col lections, and many pleasant conclusions, ea sye of all willinge ingenious to bee perceyued. Here note (Rea der) wher as the *eleuate Pole & Meridian* should be considered, in thi worke it is performed for Lõdon, because I wyshe this *Meridian Situation* or *Clime* the exacte truth of thinges. If any yearelye pra ctises in like matters agree not with my calculations, be assure they are false, or at the least for other *Eleuations*, or *Meridians* sup putated, and therfore litle seruyng thy purpose. And that the laf rude inuentions, and grosse deuises of some this yeare, and twe yeares past, published mighte be of them perceiued, then filed, an to serue to some profit: I haue purposed euen now to putte forth a booke named *Panauges*, well seruinge their turne, and so gene rally and most exactly al Europe, pleasaunt, profitable to the lear ned, and no small delight to all maner men. An other booke is al so all readye come to thy handes, titled *Tectonicon*, a treasure unto the Masons, Carpenters, and Landmeaters, correctinge their olde errors wrongfully reckened of them as infallible groundes, teg ching faithfully, sufficiently, and very briefly, the true mensura tion of all maner land, tymbre, stone, bourd, glasse. &c. and at the end containing an *Instrument Geometricall* appointed to their vse. Take in good worth these labors (louing Reader) and looke shortl ly for the pleasant frutes *Mathematical*, euen suche as haue bene promised by my frendes, & partly by me. Neyther shall my desire to profit here stay; but entendeth farther to procede, if these seme accepted. As the good will of Printers not had hath kept the fore sayde from you: so I trusse the willing minde and excellency of Thomas Gemini shall bring them shortly vnto you, Certes my hope is, while lyfe remayneth, not to be vnfrutefull to this commone wealthe, with study, and practise.

Against the reprouers of Astronomie, and sciences Mathematicall.

I Am diuersly occasioned (louinge Reader) somewhat to write in the commendation of the *Mathematicals:* whiche neded not, but only to open the folish rashenes, and rashe folishnes of suche, which of late haue in writinge dispraysed these goodly Artes. It is an olde sayde sawe, and true: *Scientia non habet inimicum nisi ignorãtem.* But to auoide tediousnesse, & chiefly for the more satisfiyng. I refer all of that sorte, whiche haue tasted any learning (the rest not regarded) to the first part of famous *Guido Bonatus de vtilitate Astronomie in communi:* wher he wryteth *cõtra illos, qui dicũt quod Scientia stellarũ nõ potest sciri ab aliquo cõtra illos, qui dixerũt quod scientia stellarũ non est vtilis, sed potius damnosa &c. contra illos, qui cõtradicunt iudicis Astronomiæ, & qui reprehendũt eã, nescientes dignitatẽ eius, eo quod non est lucratiua.* Also for breuitie, I appoint all nice deuines, or (as *Melancthon* termeth them) *Epicurei Theologi,* to his hie cõmendations touching *Astronomie,* vttered in his epistles to *Simon Grineus* to *Shonerus,* & to the peroration of *Cardanus* fiue bokes, wher he sheweth how far wide they alledge ẏ scriptures against the *Astronomer,* which make wholy with the *Astronomer. Melancthõ* writeth & affirmeth, *Arrogantia nesse eum summa stultitia coniunctã, venari choragiũ aliquod glorie ex insectatione artium, quæ sunt graui autoritate doctorũ &c. prudentiũ recepte.* He called it *manifestũ insanie genus,* declaring *quod magis opus habent Medicis, quam geometris,* aduising ẏ learned not to geue eare vnto their foly. *Sinanus (ait) vna cũ Epicuro ineptire.* Which counsel lo, I folow. Now therfore, ye enemies of all good doctrine, either geue an ouerthrowe, & that wyth your penne, or let famous *Guido,* or learned *Melancthon* satisfie. If neither: certes I wil shortly (God sparing life) take some paine in publishing the wõderful vnknowen pleasant profites of these dispraised highe knowledges, and by that meanes to enforce silence. Now in few, for thy encouragement in these, thus I say & truly, the ingenious, learned, & wel experienced circumspect student *Mathematical* receiueth daily in his wittie practises more pleasaũt ioy of min de, then al thy goodes (how riche so euer thou be) can at any time purchase. *Id tãtum quod pulchrũ est, quod purum est, quod diuinũ est, nihil mortale sapiẽs dulci ardore amplectitur Vt multa paucis crede mihi extingui dulci erit Mathematicarum artium labore.* Nowe to ende, that learned *Guido,* that excellẽt *Guido Bonatus,* sheweth what Astrologi or Astronomy is, & ought not saith he, by any mean to be repre-

Vituperant, qui simpliciter eas ignorant.

 hended

hended; in that the moste wyle, yea, the holye fathers haue practi-
sed that science. He proueth it one of the chiefe sciences *Mathemati-*
call, by the authoritie of the best learned, and by *Aristotle* in his *Po-*
steriorum. How commeth it to passe louing Reader, seing it is a no-
ble science, *& scientia est notitia vera conclusionum, quibus propter de-*
monstrationem firmiter assentimur, that it is counted vayne, and of no
small strengthe, the secret truthes and moste pleasaunt profites
therin not desired, yea vtterly dispised and of some busy bighting
bodies reiected as very lies? Let no man doubt ignorauncye, the
great enemie of all pure lerning hath wrought this. *Nam incer-*
tam vocat hanc artem vulgus, propter errores non arti, sed hominum indo-
ctissimorum insciție, & temerarii imputandos, qui citra delectum
omnia effutiunt. Thus I leaue indigestly far-
ther to trouble: fauour me as I tender
the furtheraunce of good learnings,
profitable to a comon wealth
Fare moste hertely well,
vnfayned good
Christian.
Reader.

BRITISH MUSEUM

The contentes of this booke.

FRom the next side to the fifth leafe are contained the formes of a *Quadrant*, *Square*, *Circle*, *Quantities*, with a Figure truly placing the said *Quantities* in the heauen.

From the .5. to the .13. ye haue the iudgemente of weathers by the *Sunne*, *Mone*, *Starres*, *Cometes*, *Raynbow*, *Thunder*, *Cloudes*, with extraordinary tokens and aspectes of *Planettes*. &c.

The .13. .14. .15 & .16. leaf shewe the causes of suche alteration according to *Aristotel*, first of the *Raynbow*, then *Rayne*, *Frost*, *Dew*, *Snow*, *Haile*, *Windes*, *Earthquakes*, *Thunders*, *Lyghtnings*. *Cometes* *Sũne* and *Mone eclipsed*, *Quantities* of the *Planettes*, and their *placing* ocularly demonstrated.

The .17. thaspectes of the *Moone*, and her signification in the .12. celestiall *Signes*.

The .18. .19. and 20. what *Signe* the *Mone* is in and shalbe for euer the mete tyme to *let bloud* to *Purge*, to *Bathe*, to *fall Timber*, to *Sowe*, to *Plante*, to *Graffe*, *Cut*, *gelde*. &c.

The 20 and 21 haue *Tables* for the *Sonday letter* for the *goldẽ nũber* or *Prime*, for the *Epacte* and *Mouable feastes*, many wayes conducing

The. 22. 23. and .24. the age of the *Moone*, the chaũges & quarters for euer are declared, the *Ebbyng* and *Flowings*, the breake of the *Day*, the *sunne rising*, the lengthe of the *Day* and *night*, the *Twylight* for all the yeare.

The .25. 26 and 27. shew eracte pleasaunt wayes for the daye & nyght houre, with composition of mete *Instrumentes*.

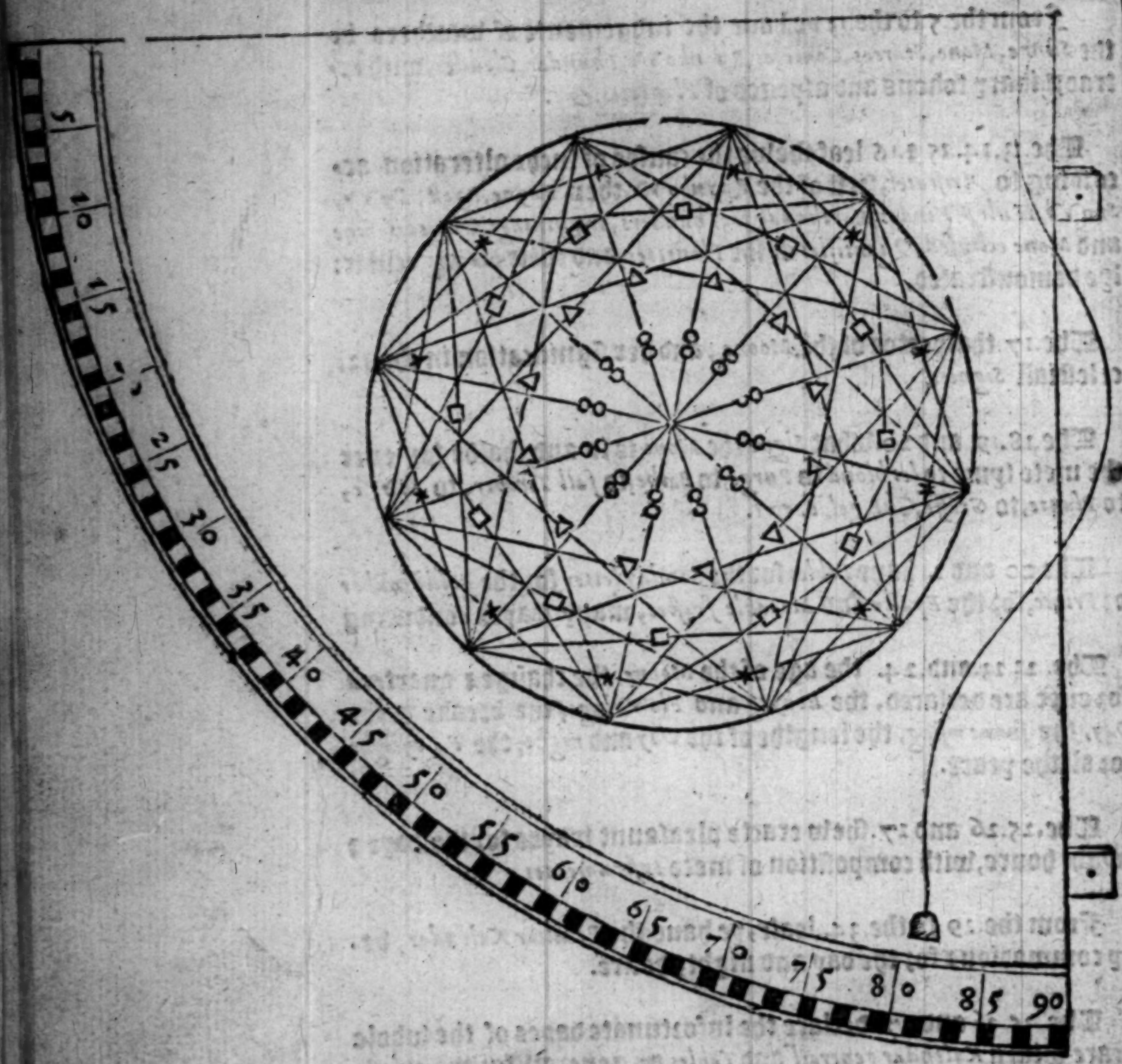
From the .29. to the .34. leafe, ye haue the *Peculiar Kalendar*, very commodious for the day and night, houre.

The. 35. 36 and .37. declare the infortunate dayes of the whole yeare with a *Kalendar generall* and *Tables* as generall for the chiefe *Fayres* of Englande.

The .38. 39 and 40. contains pleasant *Tables* for the heighte of the *sunne* at all houres, for rights and squire *Shadowe* conducinge also to the composition of many *Instrumentes*. &c.

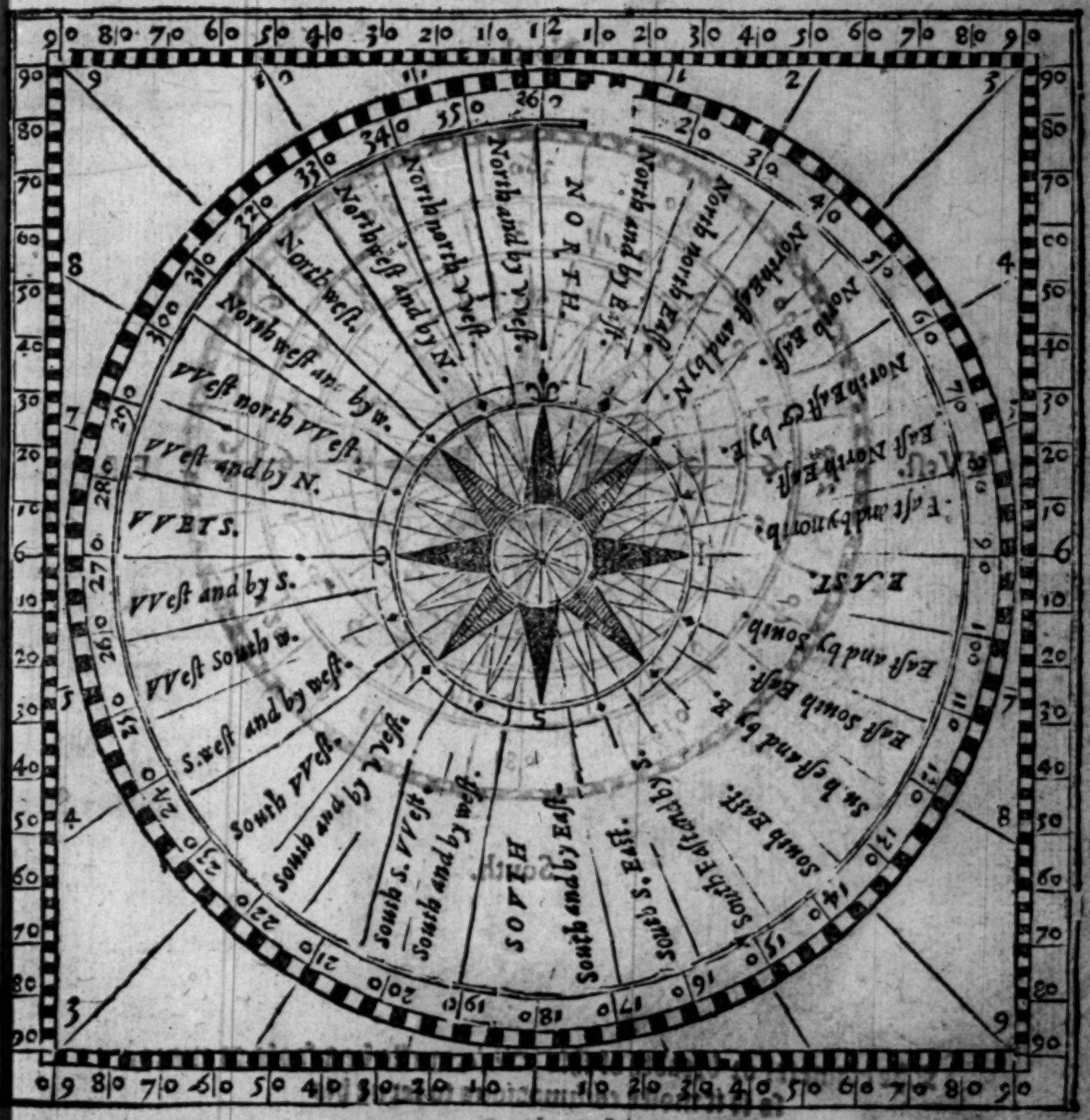
The .40. and .41. leafe, *Collections* easy to be had in memory.

This *Quadrant* is appointed here to get exactly the lenght of staffe & *Squier* shadowe, howe vnlevel soever the grounde be, as I haue sufficiently instructed in the .38. leafe.



If ye lyst not to make a *Quadrãte*, ye may vse this very wel: adding a plumbmet and lyne, with sightes or otherwise.

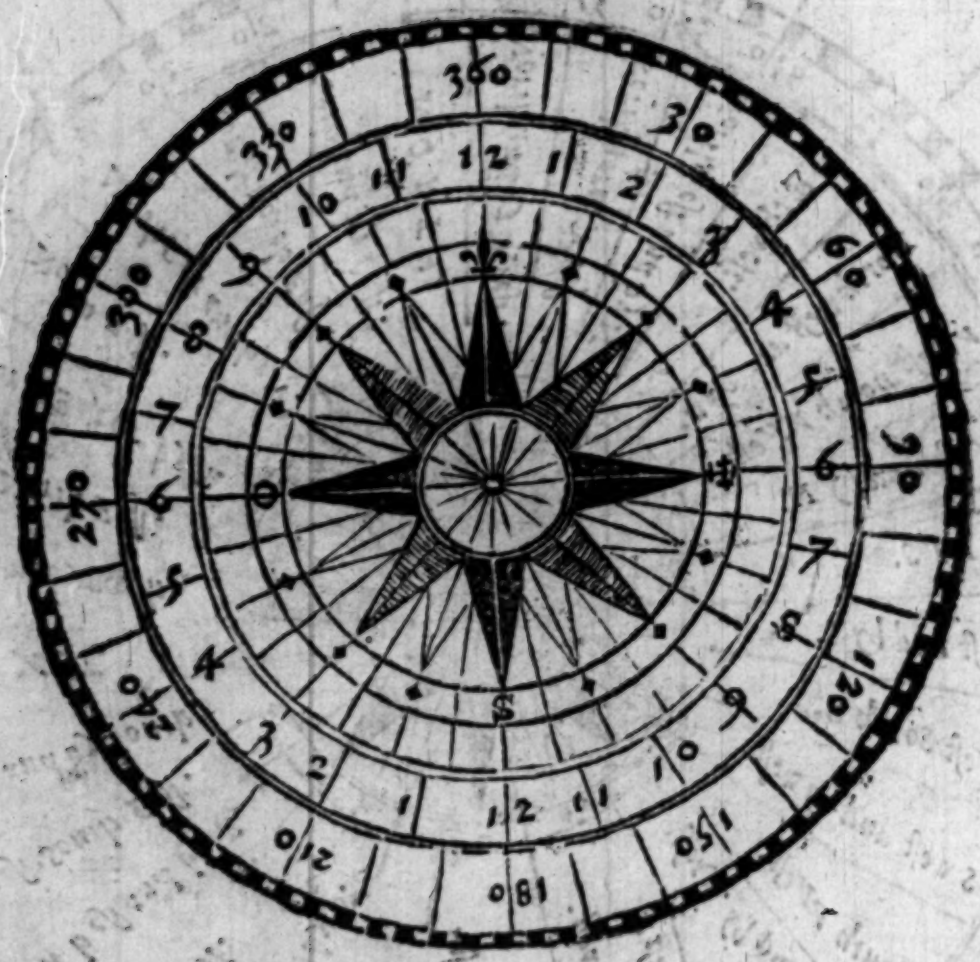
This instrument must be made in a plaine fine metal plate, a foote or more square. Then it is pleasaunt for the houre of the daye and nyght, eyther to be fixed aboute your house, or moueable if ye lyst, by a Nedle to be placed where and when ye will.
The 26 leafe sheweth the making.



The good Mariner may long for the vse of this Instrument: it serueth marueilously his tourne.

Do thus, without the *square* this *Circle* will serue well your purpose, beynge exactly made, and truely placed.

North.



VVest. East.

South.

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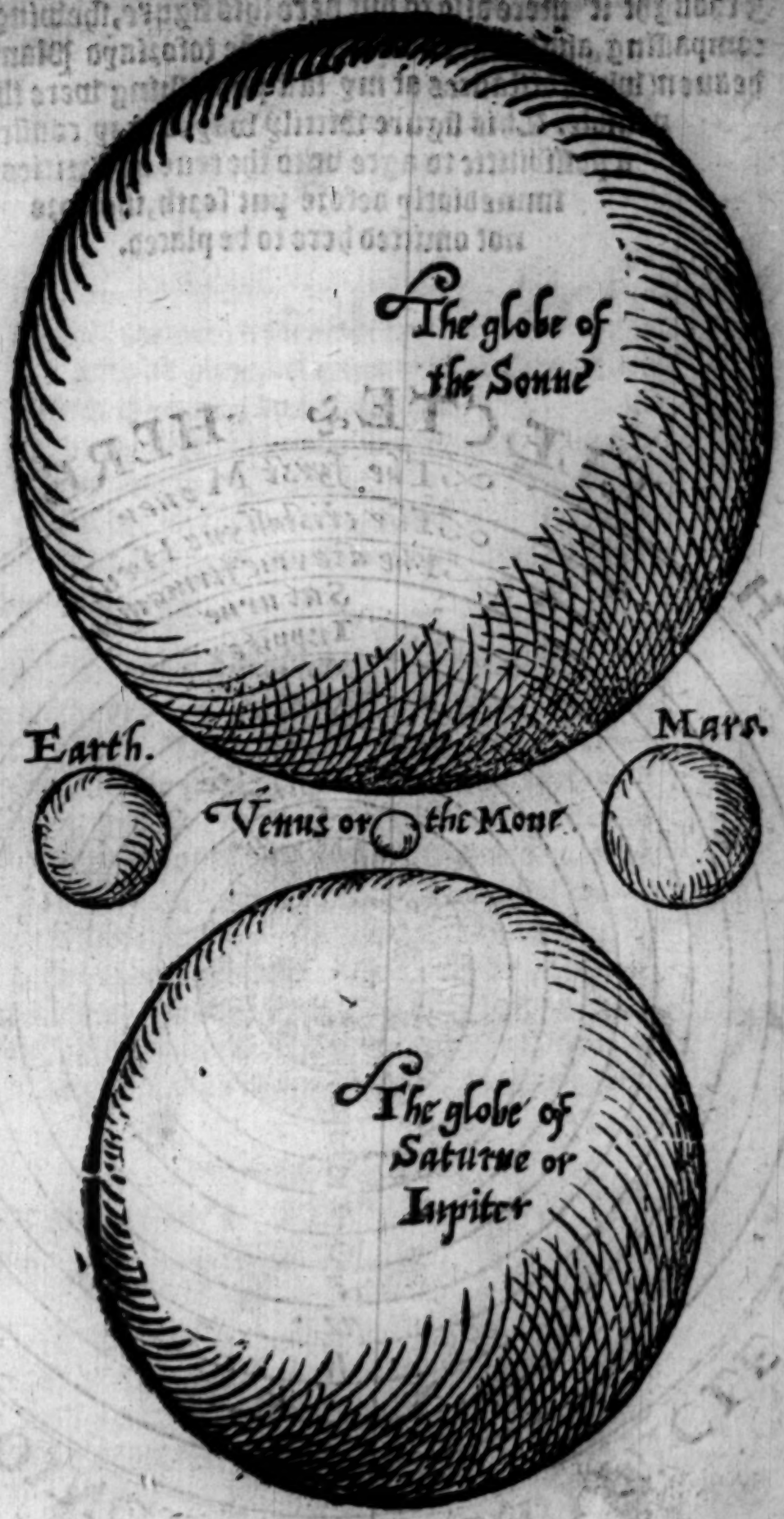
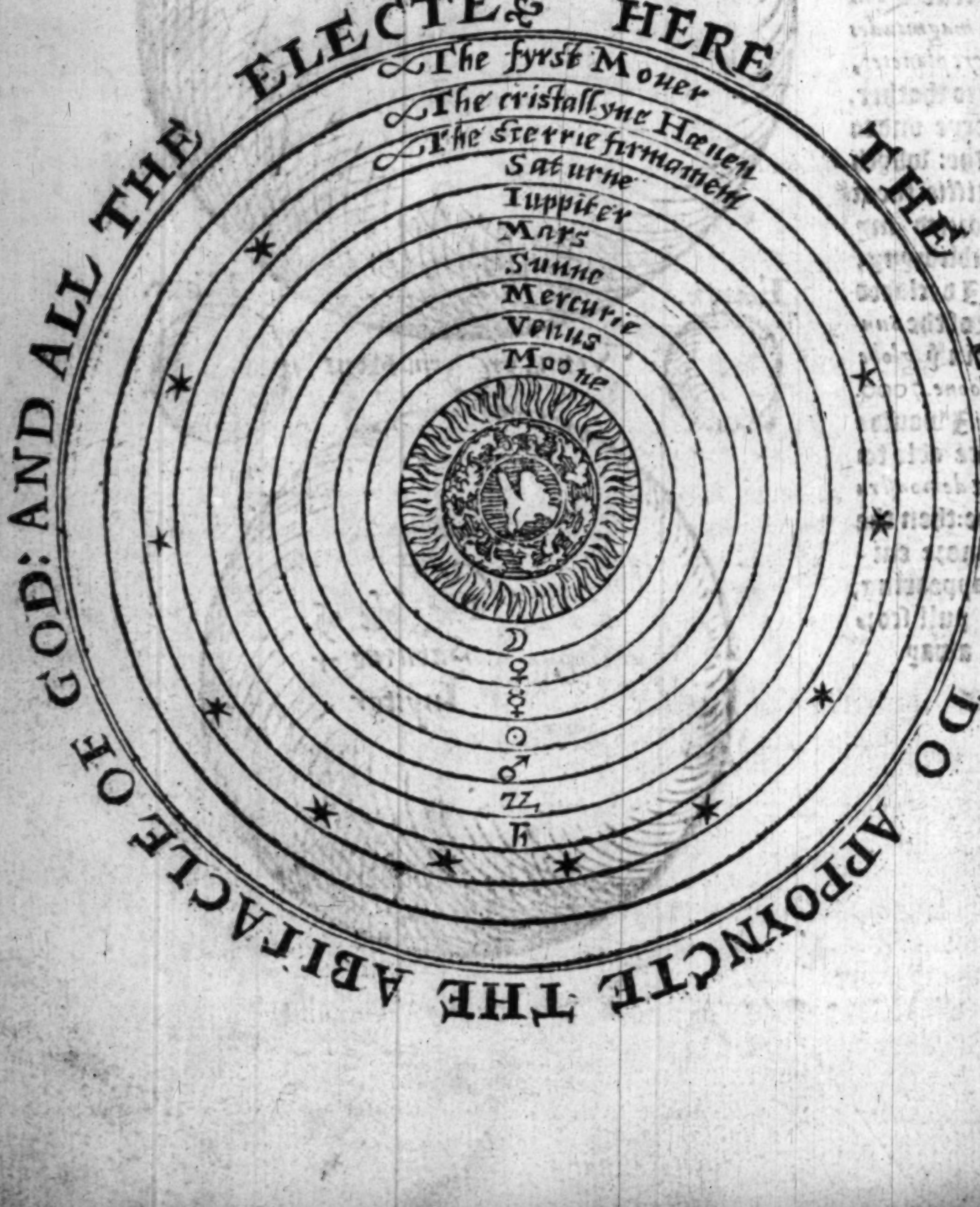
The diameter or breadth of this *Circle*, muste be a foote or more, so is it moste commodious to serue his vse declared.

haue placed reas
y to be conceiued
uen here at the
ye the true *Quan*
tities or magnitudes
f the 7. *planetes*,
he one to thother,
nd euerye one to
he earthe: whych
ay satisfie them
hat scorned my
acte publishyng,
where I declared
he *globe* of the *Sun*
o contein ỳ *globe*
f the *Moone*. 7000.
ymes. I woulde
hey were able to
onceiue *demonstra*
on made: then the
ruthe more evi-
dently appearing,
woulde pull scor-
nynges away.



I thought it mete also to put here this figure, shewing ỹ placing compassing, and distances of eche of the forsayd Planetes in the heauen (which distances at my last publysshing were thought impossible. This figure wittily wayed may confirme a possibilitie to agre vnto the true quantities, immediatly before put forth, therfore not omitted here to be placed.



Howe to Iudge weather by the Sunne ryſing or goyng dovvne.

THe *ſunne* in the *Horizon*, or ryſinge, cleare and bright, sheweth a pleasaũt day but thinly ouer cast with a cloude, betokeneth fowle weather Also at the going doune, the body diuers coloured or redde, and about diſperſed with like cloudes the beames red, and of lengthe, prenounce gret windes, the nert day frõ that part. Blacknesse in the *Sunne* or *Moone*, betokeneth water Redde, ſignifieth winde. De obſeruandis meteoris.

The element red in the euening the nert daye fayre, but in the morning redde, wynde and rayne. Also the *Sunne* beames ſpotted, grene, pale, or black gathered to a cloude, ſignifieth rain. Further the *Sunne* at the ſetting playnly ſene without any cloud, declareth a faire night to enſue Here note. *Ptolome* willeth vs diligently to obſerue the circle or circles about the Sunne. If it be cleare, and ỹ circle of no continuance, beholde fayre weather If many of them, winde. Windes more vehemente are ſignified, if that the circles be somewhat redde, here & there broken: but theſe obſcured, thicke, and blacke, looke for colde winde, and snowe. What is ſpoken of the Sunne touching the circles, the ſame is ment of the Moone. Note.

Note here that greater windes chaunce in the daye, then in the night.

How weather is declared by the colour of the Moone, and the nature of the Signe wherin ſhe is,

IF the *Moone* in the third of her chaung, yea three daies before the full, or in the middes of the quarter be founde of pure light nothing compaſſing her, the end direct vp, ſhe promiſeth faire weather, but bent to red coloure, prouoketh winde. The *Moone* pale or somwhat inclined to black obſcure or thicke, threateneth rayne. Luna rubens ventat palor pluit: Alba, ſereat.

ALſo by the nature of ỹ ſign, weather may be iudged thus according to *Steſlerinus*, *Mont regius*, *Leupoldus*: & famous *Guido Bonatus*, with others wel trauailed in the mutations of ayer

♈ ♌ ♐ hotte.

♉ ♍ ♑ earthy:

♊ ♎ ♒ windy.

♋ ♏ ♓ watrye.

COnsider the nature of the Signe where the Moone is, at the chaũg, quarter, & ful If she be in hote & dry sinnes, as *Aries Leo. Sagitarius*, in Winter a good tooken of faire weather. In Sommer a great signification of immoderate heat: If in earthy cold and dry signes, as *Taurus, Virgo, & Capricornus*, in winter iudge Colde, Frosse, and Snowe to ensue. But in Sommer temperate Weather. In aery and windye Signes, as *Gemini, Libra* and *Aquarius* muche winde. If in Watrye Colde and Moyste Signes, as *Cancer, Scorpio* and *Pisces*, in Winter wet Weather. In Sommer a pleasant temperature.

ALso, the *Sunne* in *Aquarie* the *Moone* at the change ther or in *Sagittarie*, or at the ful in *Leo*: betokeneth raine. The *Sunne* in *Pisces* or *Aries*, the *Mone* in *Virgo. Libra*, or *Sagittarie* signifieth rain, especially in watry dwellinges. The *Mon* in *aqua.* or *Pis.* loke for chaunge of weather, thē chiefly she troubleth the aire. The *Mone* also at the change, or rather at the Full, in *Aries, Libra, Scorpius* or *Pisces*, tempestuous weather foloweth. The *Sunne* in *aquari.* or *aries Libra* or *Scorpio*, but chiefly in *Leone* the *Moone* then at the Full, and that after raine or mistinges, looke for lightening. thunderinge, &c. Also ỹ *Sunne* or *Moone*, founde in *Pisces* without all helpe of *Mars* it betokeneth aboundaunce of rayne, lightning thunder. &c. To conclud the *Moone, in Cancer, Leo, Capricornus*, or *Aquarius*, ayded with any aspect, but chiefly with ỹ opposition or quadrate of *Venus* raine foloweth.

The iudgement of weather by starres,

Cum maiora apparent, tum enim Humore medius, crassescit aer.

BEholde the Sterres whose magnitude you knowe best. If they appeare of much lyght, in bignes great more blasing then they ar commonly, it betokeneth great winde or moysture in that parte where they shew, in winter, cold & frost. When starres seme to runne, in the Element, it sheweth wynd. Affirme also alteration of weather if they be few in number, cloudy, & of litle light. Further when dimme starres appeare with long firy tasles iudge windes, and great drought, the more in number, the greater effect. When sterres in the nyght as it is sayd shote or seme to fall, it argueth wynd in that parte. If in diuers places inordinate wyndes. if in all places, then pronounce windes, thunder, lyghtenings, yea weather most tempestuous.

The

The Sygnification of Cometes.

COmetes signify corruption of the ayre: Thei are signes of Earthquakes, of Warres, chaunging of kingdomes, great dearth of Corne, yea a common death of man, and beast. *Pontanus sic scribẽs: Ventorũ quoque certa dabunt tibi signa Cometæ, illi etiam belli motus, feraque arma minantur, Magnorũ & clades populorum, & funera regum aquarum significat penuriam.*

De cometarũ prodigiis, lege Cardaniũ lib. 4, Fol, 83 & Antoniũ Mizaldum de cometographia.

Howe by the cloudes, chaunge of weather is perceiued.

IF thicke cloudes resembling flockes, or rather gret heaps of wol, be gathered in many places, they shew rayne. Also when grosse, thicke, darke cloudes, right ouer the North part, or somewhat declininge to the West, are close with the earth immediatly foloweth rayn. If they appeare like Hilles, somedeale frõ the earth, a good token of weather ouerpassed. Blacke clouds, signifie raine. White cloudes appearing in winter, at the *Horizon*, two or thre daies together, prognosticate cold, and snow.

Of the Rayne bowe and his effecte, touchinge alteration of ayer.

IF in the morning the *Raynbow* appeare, it signifieth moysture, onlesse great drought of ayre worke the contrary. If in the euening it shew it selfe, fayre weather ensueth, so that aboundaunt moyst ayre take not away the effect.

Arcus nisi sole aduerso non fiunt.

Or thus.

THe Raynebow appearing, if it be fayre, it betokeneth fowle Weather, if fowle, loke for fayre weather. The Grener, the more raine, Redder wynde.

Non apparet nisi cum vapores rarificantur vel inspissantur.

A generall Prognostication

Of thunders what they Signifie.

Signum futurorum bellorũ

THunders in the morning, signifie winde. About Noone, raine: In the euening, great tempest. Some write (their grounde I see not) that *Sundayes Thunder*, shoulde bringe the deathe of lerned men, Judges & others. *Mundayes thunder* the death of women *Tuesdayes thunder*, plentye of graine *Wednesdayes Thunder*, the deathe of Harlots, and other bludshed: *Thursdais thunder* plentye of Sheepe, and Corne. *Frydayes Thunder*, the slaughter of a great man & other horrible murders. *Saturdayes Thunder*, a generall pestilent plage and great death.

Howe weather is knowen after the chaunge of euery Moone by the prime day.

SUnday prime, dry weather, Mõdai prime, moist wether Tuesday prime, cold & windy. Wednesday prime, wonderfull. Thursday prime fayer & clear, fridaies prime mirt weather Saterday prime, moist weather.

Nowe ensueth extraordinary tokens for the knowledge of weather.

Commone tokens of wether mete for all maner of wyttes.

SOme hath obserued euel Weather to folowe, whan watry Fowles leaue the Sea, desiring lande: the Fowles of the lande flyinge high: the Crying of fowles about Waters makyng a great noyse with their wynges: Also the Seas swelling with vncustomed Waues: If beastes eate gredelye: If they lycke their hoaues: If they sodaynlye moue here and there making a noyse, brething vp to the ayre with open nostrels: rayne foloweth. Also the busy heuing of moules, the appering or cõming out of Wormes: Hennes reforting to the perche or rest couered with duste, declare rayne The Ample working of the Spinner in the ayre: the Ant busied with her egges: ẏ Bees in fayre weather not farre wandring, the continuall prating of the Crowe, chiefly

twise

twise or thrise quicke calling, shew tempest. When the Crow or Rauen gapeth against the Sunne in Sommer heate foloweth. If they busy them selues in proyninge or washing, & that in wynter loke for raine. The vncustomed noise of poultry, ẏ noyse of swine, of Pecocks, declare the same. The Swalow flying and beatinge ẏ water, the chirping of the Sparow in the morning, signify rain. Raine sodainlye dried vp, Woodye coueringes strayter then of custome: Belles harde further then commonlye, the wallowinge of Dogges, the alteration of the Cock crowing, al declare rainy weather, I leaue these, wantinge the good ground of the reast. If the lerned be desyrefull of the to forsayd, let them reade graue Virgill *primo georgicorum At Bor, &c.*

There be a multitude of other not extraordinary, but of the best knowen causes, many for breuitie here omitted, the most part not mencioned, because they passe the capacitie of the common sorte, vpon all ẏ which the *Astronomer* doth well and learnedly conclude. I doubt not, there be also sometime vnknowen maters mittigating the aforesaide, or prouoking tempest vnloked for, whych neither experience, ne learning, hath stablished. Howe vnkind (these considered) yea howe farre from worthy thankes geuing are they, whiche in general heddely do blame checking bitterly the *Astrologer*, with these Judiciarie matters, the least part among a numbre of his most certayne doinges whan thinges fortune contrarye to erspectacion Understand gentle Reader the consent of a multitude famously learned in their Buckelar, euen in these matters Judiciari. Who haue wayed a longe tyme prudentlye, the greate strengthe, the vehement force, and merueylous natures, of all erraticall and celestial cōstellations, with their *Angles Radiations, Aspectes, Affections. Stationes, Progressions, Defections, Despositions, Applications, Preuentions, Refrenatiōs, Cōtrarieties, Abscisions, Coniunctiōs quadratures, and Oppositions. &c,* Therfore extreme folye, yea more thē madnes doth he vtter, which imbraideth or backbiteth these knowledges, not remembring the great, and manifolde benefites had through them, and that with most certainty in all other doynges. What *Metheoroscoper*, yea who learned in matters *Astronomicall*, noteth not the greate affectes at the rising of the starre called the *Litle dogges:* Truly the consent of the best learned doo agree of hys force: yea *Plinie*, in his History of nature affirmeth ẏ seas thē most fiers, Wines to flow in cellars, standing waters to moue, dogges inclined to madnesse, then most wode. Father these constellations

canis minoris efficatio,

Orion, arcturus, Corona, rising prouoke tempestuous weather. Th
kid & Goat, winds. *Hyades* or *Succule* rain. What Meteorologer cō
senteth not to the great alteration and mutation of aire at ỳ con
iunctiō, opposition or quadrate aspect of Saturn. with either tw
lyghts. Who is ignorant, yea merely trauailed in Astronomye
Iupiter with mercury, or with the Sunne, inforceth rage of win
des, What is he that perceiueth not the fearfull thunders, lyg ht
ninges and raines, at the meting of Mars and Uenus, or Iupite
& Mars. ꝛc. Leaue for shame to impugne these iudicials strongly
authorised

Orionis, Arcturi, Coronae Capre, succularū affectus.

♂ □ & ☌ ♄ cū ☉ aut ☽.

♂ ♌ □ & ☌, cum, ☿ aut cū ☉ & c

He that any other-part carpeth may seme more then madde. A
truth, all experience, a multitude of infallible grounded rules ar
against him, *Certum est omnibus que notum, quod coeli motus, signorū o
tus, & occasus, planetarum aspectus, & cōiunctiones, luminarū eclipses. &
certissimum, de terminatā ac infallibilem habent causā. Quis iam sane-men
tis negabit eorū effectus sepe innotescere, ut pace, bella, fames, grandines
aeris perturbationes, elementorum commotiones terre motus & similia:
Positis causis naturalibus, & non impeditis, sequitur effectus.*

The learned that listeth ingeniously to prognosticate of weathe
will not only discretly waye all before wrytten, but consider all
with them the Aspectes of the Planets folowing, and their Cum
bustion in the 12. Signes, with the Conunctions of fixed Starres
mansions of the Moone, Ascendent, Climes ꝛc. Also the times o
quarters of the yere must be noted diligently (as inlueth) and iudg
ment accordingly pronounced.

Of the yere deuided in foure quarters

Spring ♈ ♉ ♊ *Power of the Breste.*

Summer ♋ ♌ ♍ *Power ouer all flumes.*

Autumn ♎ ♏ ♐

Wynter ♑ ♒ ♓ *cold & moyst.*

THe Spring time is hot and moyste and con
tinueth so longe as the Sunne is in Aries
Taurus and Gemini, whiche is from the .x.
of Marche vnto the twelfthe of June. The
Somer is hot and drye, compted from the be
ginning of Cancer to the end of Virgo, that
is from the twelfthe of June, to the xiiii. of
September. Harueste is colde and dryi that is
from the beginning of Libra, vnto the end of Sagittarie, coumpted from the xiiii. daye of September to the viii. of December.
Wynter is colde and moyst continued from the beginning of Capricornus, to the ende of Pisces that is from the xii. of December to the .x. of Marche.

Here folowe the aspectes of the Planetes for the better iudgemente, of weather

BEfore I declare of Planetes, and the significatiō of aspectes, it behoueth briefly to open what I call *Planetes*, and, *what aspectes* - and howe they are charactered and figured Understande there be seuen moueable sterres pleasaunt too the sight (called Planetes. The highest *Saturne*. ♄. Then *Iupiter* ♃, *Mars* ♂. *Sunne*, ☉ *Venus*, ♀ *Mercury*. ☿ & the *Moone* ☽ next to ẏ earth. Now when I desire to expresse Saturn, I write this figure ♄: for Iupiter this ♃ or Mars this ♂ Thus of thothers as their characters declare All Radiations or Aspectes are expressed as folow. A Coniunction thus figured ☌ And it is, whē an other Planet is ioyned with the Sunne or Mone, or others among them selues, within one degre or lesse. The Sixtile Aspect or Radiation, is thus expressed ✱ And it is with 60 degrées thone from the other. The Quadrate aspect thus □. 90 degrees distant. The Trine thus △ seperated 120, degrees. The Opposition, thus ☍. 180 degrees, the one distant from thother. Loe here they folow in order: the characters of the Planetes: and signes also.

☌	✱	□	△	☍
Coniunction,	*Sextile*	*Quadrate*	*Trine*	*Opposition*

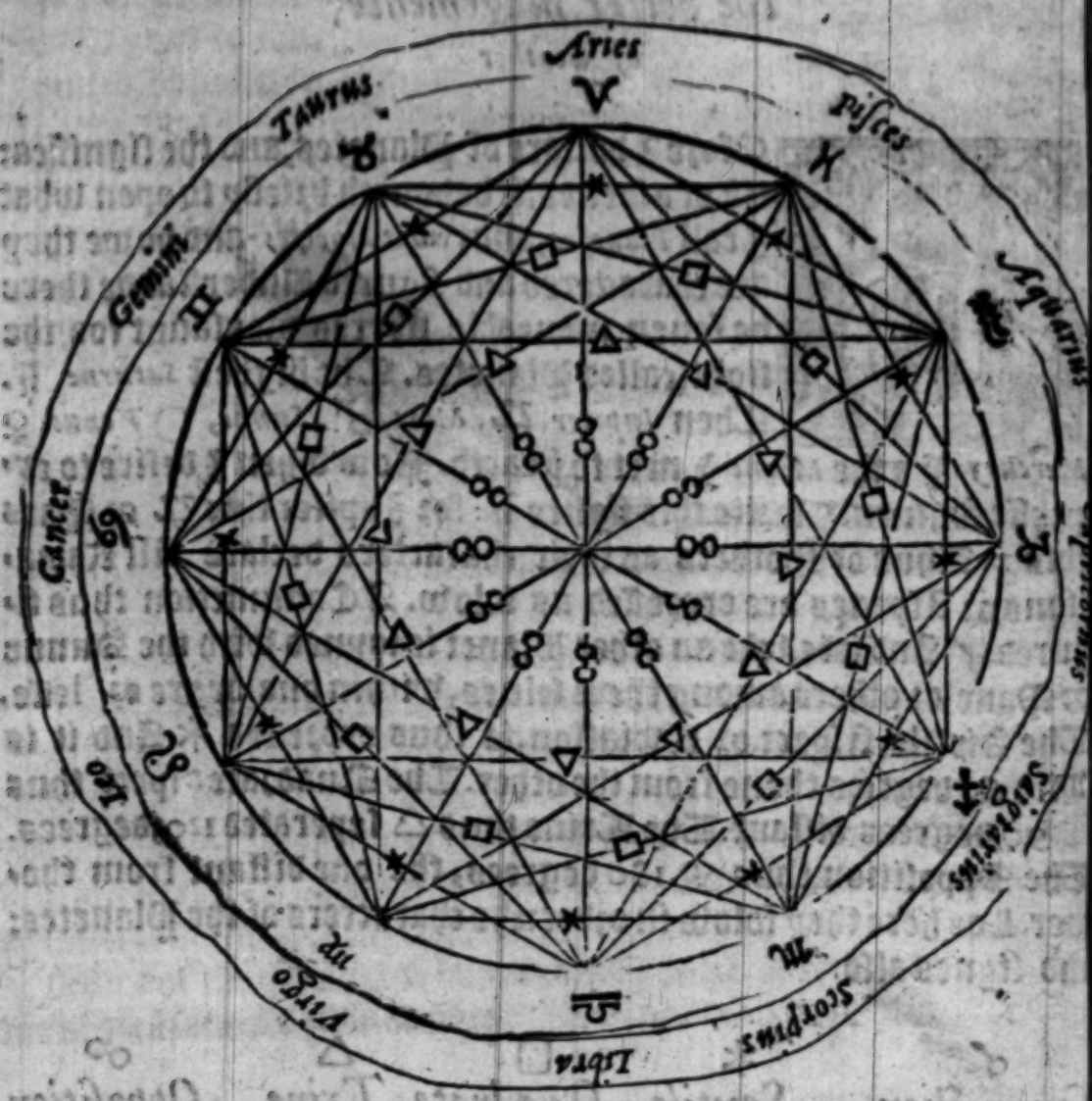
♄	♃	♂	☉	♀	☿	☾
Saturne.	*Iupiter*	*Mars.*	*Sunne.*	*Venus.*	*Mercury*	*Moone*

♈	♉	♊	♋	♌	♍
Aries	*Taurus*	*Gemini.*	*Cancer*	*Leo,*	*Virgo.*

♎	♏	♐	♑	♒	♓
Libra	*Scorpius*	*Sagitarius*	*Capricornus*	*Aquarius,*	*Pisces*

A generall prognostication

Yet for more playnesse beholde this figure.



The signification of aspectes of planetes among thē selues: for the Iudgement of weather.

♄☌♂ cū ♃.

♄□✱, & ☍, cum ♃.

THe conjunction or méeting of *Saturne* with *Iupiter*, i fiery Signes, inforceth great drought, In Watry *Signes*, Fludes, continuall Raine, general ouerf winges. &c. In *Aery Signes*, plentye of Wyndes.

The *Quadrante: Sextile, or Oppositiō of Saturne* wyt *Iupiter*, in moyst Signes causeth troubled Ayre, b Hayle, Wynde, Rayne, Thunder, &c before and after.

The co

The coniunction, Quadrature or oppositio of Saturne with Mars, in watry Signes, declare in Sommer raine, often shoures with haile, thunder and lightning. ♄ ☌ □, et ☍ cum, ☽

The coniunction quadrature or oppositio of Saturne with ☽ Sonne chiefly in colde signes, shew darke weather, haile, rayne, thunder, and cold dayes. ♄ ☌ □, et ☍ cum, ☉

The coniunction, quadrature, or oppositio of saturne with Venus, in winter engendre, cold and rayne, principallye in moyste Signes: in Summer, mitigation of heat. ♄ ☌ □, & ☍ cum, ♀

The coniunction, quadrature, or oppositio of Saturne with Mercury, in watry Signes, bring raine, in hot or dry signes, drought in Summer, thunder lightninges and tempest. ♄ ☌, □, & ☍ cum ☿

The coniunction quadrature, or oppositio of Iupiter with Mars in moyst Signes declare thunders, lightninges, and rain: in winter, snowe, or cloudy thicke weather. ♃ ☌ □, & ☍, cum ♂

The coniunction, quadrature, or oppositio of Iupiter with the Sunne, great and moste vehement wynds. ♃ ☌ □ & ☍, cum, ☉

The coniunction, quadrature or oppositio of Iupiter wyth Venus in moyst Signes, cold and mistinges, in the rest signes, fayre weather. ♃ ☌ □ &. ☍, cum ♀

The coniunction quadrature or oppositio of Iupiter with Mercury, great windes. ♃ ☌ □, & ☍ cum ☿

The coniunction quadrature, or oppositio of Mars with the Sunne in firy signes, drought: in watry, thunder, and rayne. ♂ ☌ □ &, ☍ cum, ☉

The coniunction, quadrature, or oppositio of Mars, wyth Venus, in moist signes, raine, and tempest. ♂ ☌ □, & ☍, cum, ♀

The coniunction, quadrature or oppositio of Mars with Mercurye in hote signes, great heat: in drye signes, droughte in Watry, Rayn sometimes Thunders, lightninges, with sodayne fierce wyndes. ♂ ☌ □ & ☍ cum, ☿

The coniunction quadrature or oppositio of Venus with Mercury causeth rayn, in somer they prouoke tẽpest, the more if they agre in watry Signes Note what is sayd of the coniunction quadratures

dzature or oppolition the, same is also mente of Sextile & Trine. but they are of lesse signification, so the lerned noteth.

A declaration of Weather of aspectes of the Moone with Planetes.

☽ ☌ □ & ☍ cum ♄

THE Coniunctiõ, Quadzature or Oppolition of the Moone with *Saturne* in moyste Signes, bzyngeth a cloudy daye, colde ayze accozdynge to the nature of the sygne: Zf she go from *Saturne*, to the *Sunne*, by coniunction or otherwise, harder weather ensueth.

☾ ☌ □, et ☌ cum, ♃

The Coniunction, Quadzature or Oppolition of the *Moone* wyth *Iupiter in Aries* or *Scorpio*, sheweth faire weather, White dispearsed cloudes.

☽ ☌ □, et ☍ cum, ♂

The Coniunction, Quadzature or Oppolition of the *Moone* wyth *Mars* in watry Signes, rayne, In hoote Signes, diuers coloured clouds are made, al the element ouer. In Sommer often thunder.

☽ ☌, □ & ☍, cum, ☉

The Coniunction, Quadzature or Oppolition of the *Moone* with the *Sunne* in moyst Signes, rainy weather. The moze if the *Moone* go from the *Sunne* to *Saturne*.

☽ ☌ □, & ☍ cum, ♀

The Coniunction, Quadzature or Oppolition of the *Moone* wyth *Venus*, chiefly in moyste signes, rayne foloweth The *Moone* going from *Venus* to *Mars*, moze variety of weather.

☽ ☌ □ & ☍ cum ☿

The Coniunction, Quadzature or Oppolition of the *Moone* wyth *Mercury* in moist signe s. sheweth rain and winde, the moze when the *Moone* palleth from *Mercury* to *Iupiter*: then greate Wyndes fo lowe.

Howe

How weather is iudged by the Orientall and Occidental ſtation of planetes, with their combuſtion in the 12. Signes celeſtiall First of the Planetes in Aries.

SATVRNE in Aries cõbuſt, that is to ſay vnder the beames of the *Sunne*, maketh a cloudye darke troubled aire: *Oriental*, I meane in the morning appearing before the Sune, fair weather. *Occidentall*, that is to ſaye, ſhewinge hymſelfe after the Sunne going downe, betokeneth great wyndes,

VVhat theſe termes cõbuſt Orientall and Occidental meane,

Iupiter in Aries cõbuſt, a tokẽ of rain being *Occidentall*, it bringeth cloudes, and dewes: *Orientall*, fayre pleaſaunt weather.

Mars in Aries combuſt and *Occidentall*, good weather contraryе *Orientall*.

Venus in Aries combuſt *Occidentall*, moiſtnes, great windes: *Orientall* thunders and raynes.

Mercurye in Aries combuſt, Tempeſt: *Occidental* and *Orientall*, fayre windye weather.

Of the Planetes in Taurus.

SAturne in Taurus combuſte, and ſtationarye, bryngeth thicke cloudes, thunders and troubleſome weather.

Iupiter in Taurus combuſte, indifferent weather, *Occidentall*, pleaſant ſhowres.

Mars in Taurus combuſt aquiet ayre: but *Oriental* windy.

Venus in Taurus combuſt, thunders. &c. *Occidentall* fayre.

Of the Planetes in Gemini.

♄ in ♊ SATVRNE in Gemini cōbust and *Occidētall*, drougth

♃ in ♊ *Iupiter in Gemini combust*, a good signification.

♂ in ♊ *Mars in Gemini* combust and *Occidentall*, heate.

♀ in ♊ *Venus in Gemini* combust *Occidentall*, wind.

☿ in ♊ *Mercury in Gemini*. Combust winde.

Of the Planetes in Cancer.

♄ in ♋ SATVRNE *in Cancer* Combust, darke weather, greate windes and troublesome wethers *Occidentall*, calmer

♃ in ♋ *Iupiter in Cancer combust* bringeth caulme pleasant, weather,

♂ in ♋ *Mars in Cancer*, combust, great heat,

♀ in ♋ *Venus in Cancer*, Combust, great heat a quiet calume time,

☿ in ♋ *Mercury in Cancer* Combuste, tempestuous weather, chiefly on the sea *Occidentall*, calmer.

Of the Planetes in Leone.

♄ in ♌ SATVRNE *in Leone* Combuste, maketh windes and mislinges.

♃ in ♌ *Iupiter in Leone* combust, pleasaunt windes.

♂ in ♌ *Mars in Leone* combust *Occidentall* droughte.

♀ in ♌ *Venus in Leone* combust, drought.

☿ in ♌ *Mercury in Leo* combust, wyndes.

Of the planetes in Virgo.

SATVRNE in Virgine combuſt, is a ſignificator of infirmities. ♄ in ♍

Iupiter in Virgine combuſt, manifeſteth aboundaunce of thinges. ♃ in ♍

Mars in Virgine combuſt, like vnto Saturne. ♂ in ♍

Venus in Virgine combuſt dzoughe, Dziental, contrary. ♀ in ♍

Mercury in Virgine combuſt dzought raging ſeas Occidētall dzought ☿ in ♍

Of the planetes in Libra.

SATVRNE in Libra combuſte, ſheweth infirmitie of ſight Oriental cold windes. ♄ in ♎

Iupiter in Libra Combuſt, indifferent weather ♃ in ♎

Mars in Libra combuſt, bzingeth moyſture. ♂ in ♎

Venus in Libra combuſt moyſt ayze. ♀ in ♎

Mercury in Libra combuſt windes. ☿ in ♎

Of the Planetes in Scorpione.

SATVRNE in Scorpio combuſt, colde ayze Occidental froſt; Oriental, cold nozthe wyndes ♄ in ♏

Iupiter in Scorpio combuſte, rayne Occidentall, bytter weather. ♃ in ♏

Mars in Scorpio, combuſt, declareth moyſture, orientall wyndes. ♂ in ♏

Venus in Scorpio combuſt, rayne, bothe Occidental and Orientall ♀ in ♏

Mercurie in Scorpio, combuſt, raging weather, chiefly Orientall. ☿ in ♏

chyldren Beastes shall hunger sterue, and dye of the botch: many shyppes, galleis, and hulkes, shalbe lost and the bloudye fires shall kyll many men: All thynges dere, saue Corne.

Wednesday. ON Wednesday, Loe a warme wynter In the end, snowe and frost, cloudy Sommer, plentye of Fruict, of Corne, haye, wine, and Hony, great payne to Women with childe, and death to infants, good for shepe, newes of Kynges, great warres, battel and slaughter toward the middes.

Thursday. ON Thursday, Winter and Sommer windye: A rainye Yeruest. Therfore we shall haue ouer flowinges Much fruite plenty of honye, Yet Fleshe shalbe deare, cattell in general shall dye, greate trouble, warres. &c With alicentious lyfe of the feminine sexe.

Fryday. ON Frydaye, Winter stormy, Sommer scant pleasaunt Yeruest indifferent litle store of fruict, of Wyne and Honye Corne deare Manye bleare eyes · Youthe shall dye. Earthquakes are perceaued in many places plenty of Thunders, lightninges, and tempest, with a sodein death of cattel.

Saturday. ON Saturday, a meane Wynter: Sommer verye hotte A late Yeruest, good cheaps Garden hearbes, muche burnynge plenty of Hempe Flaxe and honye, Olde folke shall dye in most places Feuers and Tercians, shal grene many people, great muttering of warres, murders shabe sodeinly cõmitted in many places, for lyght matters.

NOwe that I haue opened dyuers wayes, bothe for the learned and vnlearned, how weather to come at all tymes may be well iudged and knowen. &c. I thoughte it meete, for farther knowledge therin, not to omitte here the naturall causes of suche and so manye alterations of ayre, Loe therefore orderly they folowe.

Natura

Naturall causes, conducing to all the afore-sayde, and first of the Raynbow.

THe Rainbow is the shining and rebounding of beames of light, that tourne to the contrary vapoure againe in the cloud. It declareth somtime rayne, and many times faire weather: when the one, and howe the other, is before opened.

Of Rayne.

RAyne is a cold vapour, an earthy humour, or fumosities, out of waters or earthe drawen vp by the vertue of the Sunne, to the neither parts of the middle spare of the ayre there throughe colde thycked, then dissolued: thus engendred falleth on the earth.

Yeare I leaue to speake of miraculous raynes, as Milke, Bloud, Flesh, Iron, wol. &c. For more satisfying in theese, read *Plinius* in the second boke. 58. Chapter.

quæ lapides pluant, lege Pli Lib. 2, Capit. 58.

Of Frost and Dewe.

A Colde Moyste vapoure, a litle waye drawen vp in the daye thorowe faint heat of the Sunne, descendeth in the nighte, dissolued on the earth, ther congelated, or resolued into water, the one called Frost, the other Dewe. The lacke is a sygne of fayre weather in the Spring or Haruest.

Ros est ate, pruina hiemefit.

Of Snowe

IT is a moiste vapoure, drawen vp to the myddle Region of the ayre, then thycked, and frosen into the body of a cloude: So congelated descendeth.

Nix humor modice concretus.

Of Hayle.

A Cloude resolued into water, in the fall congelated, maketh Hayle. The hyer it commeth from aboue, and the longer it tarieth in the ayre, the rounder Hayle.

Grădo pluuia in discensu, cõ gelata.

A generall Prognostication

Of VVindes.

Ventorũ ergo materia, calida & ſicca exhalatio.

VVInd is a multitude of dry erhalations, drawen vp from the earth and aboue the earth enforced here and there.

Of earthquakes in the moſt quiet time.

Quemadmodum in nube tonitruum, ſic in terra tremor.

PLentie of wyndes, entred into holes, cones, or caues of the earth, whiche abſent from aboue the earth cauſeth quietnes: the violēt brusting out of them (the earth cloſed againe) is the earthquake: *Signum eſt futurorum Bellorum.*

Tokens of earthquakes to come.

Signa terre motus.

A Fyry cloude, appering in the element like a litle Pillar, is a tokē of earthquakes to come. The obſcurity or darcknes of the Sunne, without cloudes, and ſtraungely coloured, bloudy or otherwiſe, is a token of arthquakes.

Alſo when well water and others are troubled or ſalt, or infected by ſauour, &c.

A great quietnes of ayre, by lande and ſea, and chiefly the long abſence of windes.

Alſo ſtraunge noyſes harde, as clamoures of men, ruſchyng of harneſſe, mournynges, lamentations. &c. All theſe haue ben obſerued, to ſignify earthquakes at hand.

Of Thunders and Lightninges,

Fulgetrũ prius cerni, quã tonitrũ audiri, cum ſimul fiant certum eſt. pli. lib. 2. Capi. 56. contra Ariſto.

THunder is the quenching of fyre, in a cloude. Or thunder is an erhalation, hote & dry e, mixte with moiſture, carryed vp to the middle Region, there thicked & wrapped into a cloude, of this hote matter coupled with moyſtneſſe, cloſed in the cloude, groweth a ſtryfe, the heate beating, and breakyng out the ſides of the cloude with a thundring noyſe: the fyre then diſperſed, is the lyghtninge. Thus for the learned: *Tonitruum ſonitus eſt, qui editur quando nubem rumpit halitus. Fulmen flamma vel repentinus eſt ignis, qui ex colliſione nubium, aut ruptura naſcitur.* Ariſtotel affirmeth the lightning after the thunder, but the fyre doth fyrſt appeare, in that the ſight is before the hearing. If this ſatiſfie not, reade the ſecond of his *Meteoron*. Here foloweth a note of lightninges.

Ther

There be thre kindes of Lightninges, dry, moist, and clere,

DRy do not burne but cleue, departe or deuide. Moyste burne not but alter colour. The Clere are of marusilous natures Ful barels by it are emptied. It melteth mony in the purs, it breaketh the swearde, the purs and scaberde not peariſhed, yea ware in them vnmolten. *Note.*

Of the Cometes or flames in the night,

A Comet is a flame working in a dry, hot, slymie exhalation, drawen vp to the highest part of the ayre. His mater or substaunce after it is brent, disperſed, prouoketh wyndes. *Ventorum causa.*

The naturall cause of the Sunne in Eclipse,

NOthing els is the Eclipse of the Sun, but the direct putting the body of the Moone betwene the Sunne and the earth, or betwene our syght and the Sunne, whiche chaunceth only at the chaunge.

A Corollarie.

BY this gather the darkenesse at Christes death, not to stande by naturall Ecliptical cause: but by supernaturall, or miracle For it was at the ful Mone, the scriptures witnes, which enforced *Dionisius Areopagita*, at the time of his passion, too speake thus. *Aut deus nature patitur, aut mundi machina dissoluitur.* *Miracle.*

The cause of the Moone Eclipsed.

THe Sun being in the contrary poynt to the ful Mone, enforceth the shadowe of the earth then directly put betwene the Sun and the Mone, towarde the mone, hyding more or lesse of the Moone, as she differeth frō the Ecliptical. Som obserue pestilēt plagues, soden batail, great dearth, to ensue these Eclipses: whiche all I desire God to auerte from his chosen. Manye other thinges by this *Eclips* are gathered, as *Longitudes* of countries, the *quantity* of the Sun, cōtaining ỳ bigner of thearth 162 times: the *Vniuersalis. est Eclipsis Lune. Nō semper in nomi lunio, sed in ca. & tenda.*

Compasse of the earth 21600 miles, whose thickneſſe, accordyng to Archimedes rule is 6872. miles, and eyght eleuenthes of a myle.
The quantity of the Mone is the 43 part of the earth.
The Sunne containeth the globe of the Mone 7000. times.

Omniū planetarū ad terrā magnitudo,

Saturnus comprehendeth the bignes of the earth 91 times, Iupiter 95 times Mars, ones and ten ſixtenthes. Uenus the 37. parte. Mercurius, one 21000 part of the earth.
Note here, that Alfraganus affirmeth ỹ leaſt fixed ſterre perfectly ſeene, as bigge as the whole earth.

Dimetiens ☉ ad terre dimetiētem 11 ad 2

HAec non erunt admiratione, ſi globi capacitatem ex longitudine diametri queſieris. Continet enim ſolis dimetiens terre dimetientem quinquiés & ſemiſſem. Eſtque proportio diametri ſolis ad terre dimetientem, que eſt numeri vndecim ad duo, quintupla ſeſquialtera. Cubus ſolis mille tercentum vnam & triginta partes tales continet, cuiuſmodi terre cubus octonas complectitur. Cubus enim numeri vndecim, eſt mille tercentum vnum & triginta. Cubus vero binarii, qui eſt terre, octa Subducto quoties id fieri poteſt, minore cubo qui eſt terre, a maiore qui eſt ſolis cognoſcitur cubi ad cubum proportio, & quanto Sol maior, terra ſit Inuenimus ergo octo centies, ſexagies ſexies, in mille tercentum vno & triginta.

Cubis ☉ 1331 terre 8.

Dimeciēs terre ad diam ☽ 17. ad 5. Cubus terre 4913. Cubus ☾ 125.

Terre Diametros Luna dimetientem complectitur ter, & duas eius diametri portiones quintas: eſtque ea porportio dimetiētis terre ad Lunæ diametrum, quæ eſt ſeptemdecim ad quinque tripla ſuperbipatiens quintas. Cubus numeri ſeptemdecim eſt quater mille nongenta tredecim. Cubus numeri quinque eſt centum viginti quinque. Maiore cubo per minorem diſtributo, reperimus numerum centum vigintiquinque, tricies nouies in quater mille nongentis tredecim: quod paululum a ſuperioribus obſeruationibus differt.

The quantities, or rather true proportion of all the planets vnto the earth, ocularly demonſtrated by figure folowynge.

Mercury is but a point in respect of these Quantities,

A generall Prognostication

By these fyue Globbes are repzesented the true magnitudes of the .vii. Planets. One globe oz like magnitude appointed foz Saturne and Jupiter. Enē so foz the Mone & Uenus, the rest haue seuerall globes, (as ye may see) accozdyng to their quantities.

The nature, course, coulour, and placing, of these seuen Planetes.

♄ SATVRNE is the byghest and slowest in pzoper motion, cold, dzye, and pale, like vnto lede coloures requiryng thirtye yeres to end his course. *Di. 9. ad. 2.*

♃ IVPITER is nert vnder Saturne temperate, faire and bzighte: his course is perfourmed in. 12. yeres. *Di 32 ad 7.*

♂ MARS is hote and dzy of fiery couloure: in two yeares endeth his course. *Di 7 ad 6.*

☉ The Sunne is placed in the middle of all the Planetes: moste cleare and bzight, the wel of pure light: euery yere finishyng his course. *Di. 11 ad. 2.*

♀ Venus is nert to the Sunne colde, moyst and cleare, ye moze bzighter then Jupiter, he course is lyke vnto the Sunnes: neuer aboue eight and fozty degrées from the Sunne, called the Mozninge Starre when she goeth befoze the Sun, comming after the Sun, she is named the Euen sterre. *Di. 3. ad. 10.*

☿ Mercury is nert vnder Uenus, somwhat shining, but not very bzight: neuer aboue 29 degrees from the Sun, his course is like to Uenus, oz the Sunnes motion.

☽ The moone is lowest of al the seuen, running ouer the whole Zodiake in 27. daies & 8 houres & sumwhat moze. *Di. 5 ad 17*

Foz moze plainelle of that whiche is opened, nowe shall folowe a figure by the whiche ye maye perceiue howe the Ozbe of the one Planet compasseth thother. Also how these Planets are placed in the heauen, yea which Planet is highest from thearth, and which nerest vnto vs. Consider wel this figure, so needeth no farther declaration.

Ye

GOD: AND ALL THE ELECTE & HERE
The fyrst Mouer
The cristallyne Heauen
The starrie firmament
Saturne
Iuppiter
Mars
Sunne
Mercurie
Venus
Moone
THE LEARNED
DO APPROVNCTE THE ABIECTE OF

Ye may here behold first the Elementall part subiect vnto alteracion, consisting of the foure Elementes, firste Earthe and Water whereon we are, then ayre and Fire. Then the other Ethereal, part (which the Phylosophers call quinte essence) containeth the x. orbes, the bigger compasseth the next lesser, as the Figure before showeth It beginneth at the Moone, then Mercury, Venus, &c in height more and more. As the figure declareth Saturne to be the highest Planet so is the Mone lowest.

The distaunce or myles that the Mone is from the earth, and euery Planet frow other.

Hec incredibilia videtur tantum hiis, qui mathematicis demõstracionibus non assueuerunt. &c.

AS some haue published, it is from the Earth to the Moone 1750. miles.
From the Mone to Mercury, is 12812.
From Mercury to Venus, as many miles.
From Venus to the Sunne, is 23437 miles and a halfe.
From the Sunne to Mars, is 15725. miles.
From mars to Jupiter. 78721.
From Jupiter to Saturne, as many miles.
From Saturne to the firmament 120465.
The whole summe frõ the earthe to the Firmament is 358463 miles. and a half. Here demõstration might be made of ẏ distaunce of these Orbes, but that passeth the capacity of the common sorte

The natural operations of these Planets by coniunction, opposion &c. ensueth: But more largely of me opened in a pleasant boke, shortly to be published. First here will I end the naturall causes of many Sunnes and Mones then of the Planets by coniunction.

The naturall causes of many Sunnes, or Moones,

Milichius noteth the kyng of Pole to haue sene 6 Sunes at ones

THeese come to passe, when a thicker cloude is gathered toward the side of the Sun or Mone, in the which the broken beames of the Sunne doe leaue the fashion and verye forme of that Sun. Thus as foloweth, sayeth *Plinius* in hys seconde booke of the historie of nature, and 31. chapter. No mo Sunnes are perceyued in our time then thre: and they are neuer sene, either

aboue

abone or beneth the *Sunne*, but on the sides: neuer in the night but only at the *Sunne* rysing, or going downe.

What is to by chosen or auoyded vnder euery aspect of the Moone, with her signification in the twelue Signes, touching the same.

THE conjunction, quadrature or oppositio of *Saturne* with the *Moone*, causeth an euill vnluckye day for all matters. Leaue therfore to haue to do any manner waye: nothyng shall prospere, or come well to passe then attempted. Yet the *sextile* or *Trine* of *Saturne*, with the *Moone*, declareth a conuenient time to till, delue or digge, to sowe, to lay foundations, to erect or repaire houses, yea a mete tyme to obtayne sutes of fatherly fauours. The *Moone* in *Capricornus* or *Aquarius*, bringeth this later effect of the *sixtile* and *trine*.

♄ ☌ □ vel ☍ cum ☽

♄ ✶ & △ cum ☽

☽ in ♑ vel ♒

The conjunction, sextile, trine, quadrature or opposition of *Iupiter* with the *Moone*, sheweth a fortunat daye chiefly to obtaine sutes of kynges, noble Princes, Prelates &c. of Lawyers and Religious persones: and a meete time to studye, to iourney, to take an honest matter in hande. The *Moone* in *Taurus*, in *Leo* or *Sagitarius*, sheweth the same.

♃ ☌ ✶ △ □ vel ☍ cum ☽. ☽ in ♉ ♌ vel ♐

The conjunction, sextile, trine, quadrature or opposition of *Mars* with the *Moone*, warneth thee not to match thy self that daye with warriours notwithstanding very good and moost mete to fynishe all maner firy workes: naught to iourney: yet moste conuenient for valiant captaynes to worke their feat, to leade, encourage or stomacke their souldiers moste vnmete to treat peace, to take seruauntes, or to seke frendship.

♂ ☌ ✶ △ □ ☍ cum. ☽

The conjunction, quadrature or opposition of the *Sunne* with the *Moone*, declareth a very vnhappy daye for all matters: therfore attempt nothing ne and maner sute: neither plante, builde, ne iourney. Yet the sextile any trine are very fortunate, specialiye to obtayne sute of kynges, Princes and other Nobles. The *Moone* in *Aries* enforceth the effect of this latter parte.

☉ ☌ □ vel ☍ cum ☽

☽ ♈ in

♀ ☌ ✱ △ □ vel ☍ cum ☽ — The Coniunction, sertile, trine, quadrature or oppositio of Venus with the Moone, causeth a day most apt to obtain all sutes of women good to woo, to attempte mariage, and to folowe all maner pleasures, and pleasaunt pastymes: not vnmete to byde seruaunt, to let bloude, &c. The Mone in Libra or Pisces, prouoketh the lyke.

☿ ☌ ✱ △ □ vel ☍ cum ☽ — The Coniunction, sertile, trine, quadrature, or oppositio of Mercury with the Mone, promiseth a fortunate happy day, to bye & sell: very good to enter children in Liberall artes: an apt tyme for the versifiare: good to vse marchaundyse, to iourney, too sende embassage, to geue accomptes and suche lyke.

☽ in ♊ ♋ vel ♍ — The Mone in Gemini, Cancer or Virgo, enclineth euen to the same aforesayde,

☾ cum ☊ — The Mone with the Dragons head, sheweth a lucky day for all matters: with the Taile contrary.

Now ensueth a Table shewing what signe the Moone is in, and shall be for euer, declaryng also the meetest tyme to let Bloud, to pourge, and to Bathe.

The Table hath at the head Seuen titles. The first months: the second Dayes: then the Prime: the twelue Signes: the titles to let Bloud, to Purge, and to Bathe.

Here it is to be noted, that those dayes are good for these purposes, whiche be signed with this letter *g*: and those euell dayes, that are noted with *B*.

¶ This Table declareth for euer, in what Signe the Moone is or shall be at any daye in the yeare. It serueth also very well to let Bloud, to Purge, and Bathe.

Monethes.	Daies.	Prime.	The 12. Signes.	To let Bloude	To Purge.	To Bathe.
Febr. Nouē.	1	3	Aries.	G	B	G
Marche.	2		Aries.	G	B	G
	3	14	Taurus.	B	B	B
Decembre.	4	6	Taurus.	B	B	B
	5		Gemini.	B	G	
Aprill.	6	17	Gemini.	B	G	
	7	9	Cancer.		G	G
Maie.	8	1	Cancer.		G	G
	9		Cancer.		G	G
	10	12	Leo.	B	B	G
	11	4	Leo.	B	B	G
Iune.	12		Virgo.	B	B	B
	13	15	Virgo.	B	B	B
Iuly.	14	7	Libra.			
	15		Libra.			
	16	18	Scorpius.		G	G
	17	10	Scorpius.		G	G
Auguste.	18	2	Scorpius.		G	G
	19		Sagittarius	G		G
	20	13	Sagittarius.	G		G
	21	5	Capricornus	B	B	B
Septembre.	22		Capricornus	B	B	B
	23	16	Aquarius.			G
Lanua. Octo.	24	8	Aquarius.			G
	25		Pisces		G	G
	26	19	Pisces.		G	G
	27	11	Pisces.		G	G

A generall Prognostication.

SEke out vnder the titles of the monethes, the name of ỳ moneth, whose day you must loke out right against the moneth, vnder the title of dayes: and ther beginne to tell downewardes, *one, two, thre. &c.* to the ende, if it so require, and then from the beginninge, if neade be, vntill you haue reconed the number of the day that you seke. Loke what numbre it falleth, vpon in this table, vnder the title of *dayes* that numbre kepe in minde. Then seke vnder the title of ỳ prime, the golden numbre for that yeare right against that leftwarde, vnder the titles of *dayes*, begyn to tel downwards, *one, two, thre. &c.* vntill you haue reckoned the nũbre whiche you did kepe in minde Against that towardes your right hande, vnder the title of *Sygnes* is the signe wherin the mone shalbe that daye. Euen then vnder the other titles, ye shall fynde in ryght order for *letting blonde* for *purging* and *bathing*, accordinge as they be noted with *G* whiche is good, and *B* signifying bad. Ensample.

The firte daye of *Marche* in the yeare of our Lorde 1555 I desire to know what celestiall signe the *Moone* doth then occuppe. I fynde first the name of the *Moneth*, that is *Marche*: and the daye as followeth, in the next order of this table. I begin here to tel right against my moneth at the Figure of 2. saying *one, two, thre. &c.* so I haue at the end, and compt of six daies this figure 7. which I kepe in mind Now I must seke out ỳ *Golden number* for the yere aforsaid, vnder the title of the prime here, that is 17. against the which on the left side is 6. Ther you must begynne again to compt, *one, two, thre. &c.* vntill you come vnto your numbre 7. So on your ryght hande in the rowe, or order you shall see *Virgo*, the celestiall *Signe* that the *Moone* is in and after that these thre letters *B.* whiche declare bad or euell to let *Blonde*, to *Purge* or *Bathe*, agreable to the titles in the head. *G.* there had signified good.

For as muche as letting of *Blonde*, *Purging*, and *Bathing*, *Inundations*: *Fluddes*, *Timber falling* *Sowing*, *Planting*, *graffyng*, *Cutting. &c.* depende chefly on the *Signe* wherin the *Moone* is, which I haue euer before plainly opened, I thought it mete to haue thē now orderly touched, as followeth.

A conducible note for letting Bloud.

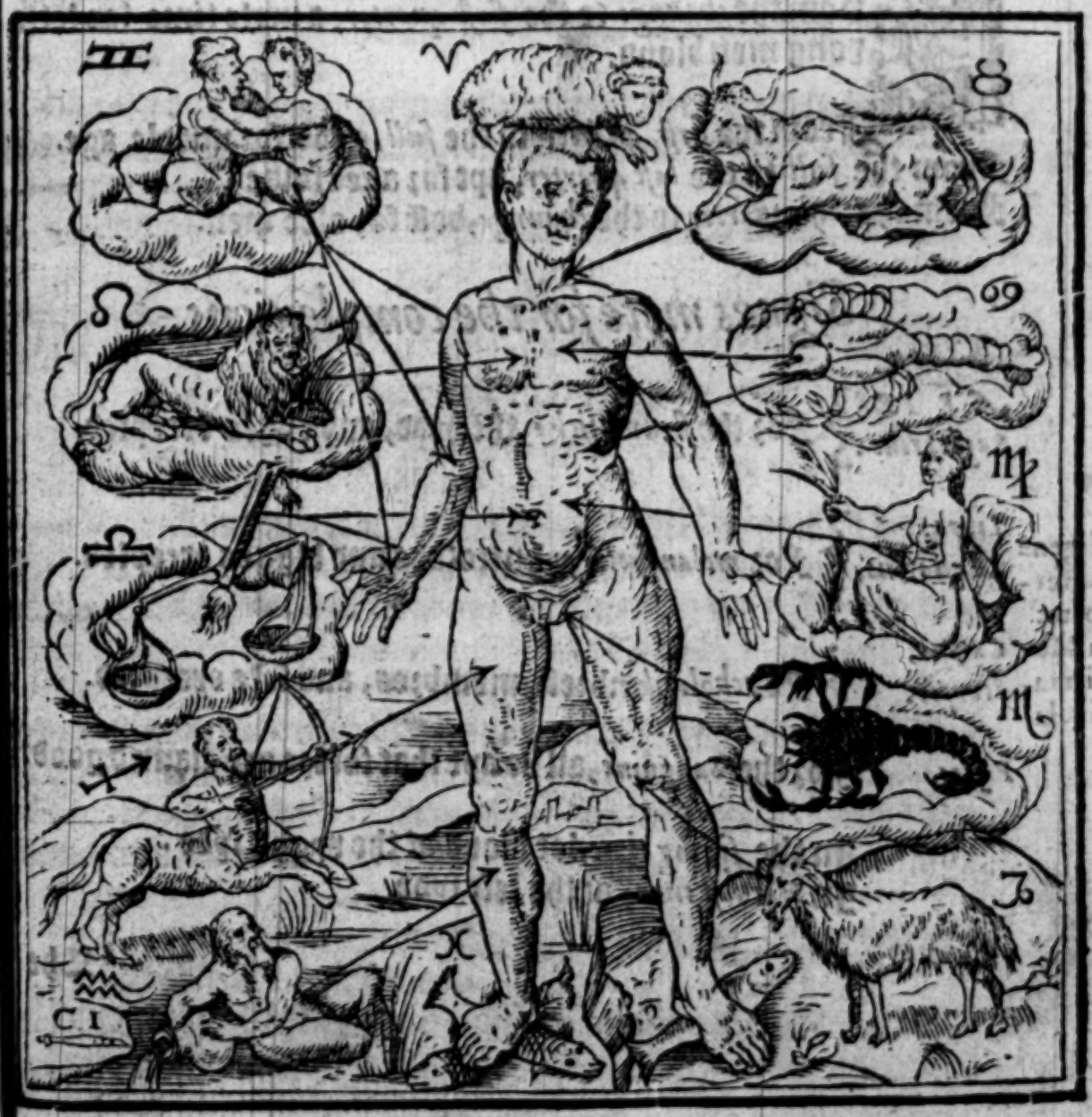
LEt bloud at no time without greate cause, for it bryngeth weakenes and many infirmities. If ye do, see it be after good digestion, and fasting, in a fayre temperate daye. Beware before of all maner exercise, *bathings, watchings, & carnall copulation. &c.* After vse fine meates of lyght digestion, abstayning from all the aforesaide, vntill the fourth day.

Malum minui vel purgationibus vti, tempore caloris propter defectũ honoris.

These *Signes* are most daungerous for bloud letting, the *Moone* beynge in them, *Taurus, Cemini, Leo. Virgo, & Capricornus*, with the last halfe of *Libra* and *Scorpius*. The reast are all good, so the *Moone* beare no dominion in that membre whiche ye cut, as foloweth.

Ill to let blud in ♉ ♊ ♌ ♍ ♑

Beholde the Figure.



Profitable Rules.

The Dominion of the Moone in mans body.

Aries.	THE	Head and face.
Taurus.		Necke.
Gemini.		Armes, handes, shoulders.
Cancer.		Brest, stomacke, rybbes.
Leo.		Heart, backe.
Virgo.		Bowels, belly.
Libra.		Raynes, nauill, buttockes.
Scorpius.		Secreat membres.
Sagitarius.		Thyes.
Capricornus.		Knees.
Aquarius.		Shynnes, legges.
Pisces.		Fete.

FRom the *chaunge* to the *first quarter*, a mete time too lette yong men bloud.

From the *first quarter* to the *full*, good for middle age.
From the *full* to the *last quarter*, apt for aged folke.
From the *last quarter* to the *chaunge*, best for olde men.

Signes mete for the complexions,

ARIES } For the *fleumaticke*, the head, and thyes excepted.
Sagitarius. }

Libra. } For *melancholike*: buttockes and legges excepted.
Aquarius. }

Hec diligentissime obseruare oportet solertem Medicũ, nisi maiora peticula cogant.

Cancer. } For *cholerike*: brest, membres, and fete excepted.
Scorpio. }

Pisces. For the *Sanguine*, all be apt that tofore are named good.

In the *spring time*, let bloud at the ryght syde.
In *Harueste time*, at the left syde.

The

The learned *Phisitions* will consider, beside al that is sayde, the *Coniunctions. Oppositian*, and *Quadrata aspectes* of the Planetes: with many other thinges, *Astronomicall*, most necessary, both in *blud letting purging, bathing. &c.*

For to take purgation, and to batho.

The meteste time to take purgations et, is neither in hot, nor colde dayes that is from the tenth of *Marche*, to the twelfthe of *Iune.*

Further by rules Astronomicall, it must be perfourmed when the Moone is in cold, moist, and watry Signes, as Cancer, Scorpius and Pisces: comforted by aspectes and radiations of Planets, fortifying the vertue of the body expulsiue. *good to purge* ♋ ♏ ♓

The Moone in Aries Taurus, and Capricornus, naught. One cause of vomiting the purgation is if the Moone haue aspect too any planet retrograde. *Bad to purge* ♈ ♉ ♑

The Moone in these Signes folowyng, very good to bathe: Aries, Leo, Sagitarius, Cancer, Scorpius, and Pisces. *good to bathe* ♈ ♌ ♐ ♋ ♏ ♓

These ensuyng are euil to bath: Taurus, Virgo, & Capricornus. *Bad to bathe* ♉ ♍ ♑

Of Fnundations or fluddes, of tymber fallynge, Sowynge, planting, graffing, heare clipping, shauing, and geldyng.

The flud is biggest at the ful: because then dispersing her vertue, she fylleth all places with moisture. By common experience, ioyned with learnyng I know, at the ful the Moone weth all bodies with humours: and so are emptied, growyng too e change. Of this, some gather the fall of timbre at the chaunge, ore to the purpose then other tymes: wantyng the superfluous oisture, the cause of putrefaction. *Omnis putredo ab aqueo humido* *The fall of tymber.*
tum habet, Schoner willeth from the 1. day vnto the 22. daye of the oone, trees to be felled, and that after Mydsommer to Januarye o tymbre is strong, sound, and voyde of wormes.

To Sow, Taurus, Cancer, Virgo, Libra, and Capricornus are *good to Sowe* ♉ ♋ ♍ ♎ ♑
t in the increase of the Moone.

To Plante or Graffe, is best when the Moone hath her being in *To plante or graffe.* ♉ ♒
y fired Signe, eyther in Taurus or Aquarius, in the encrease.

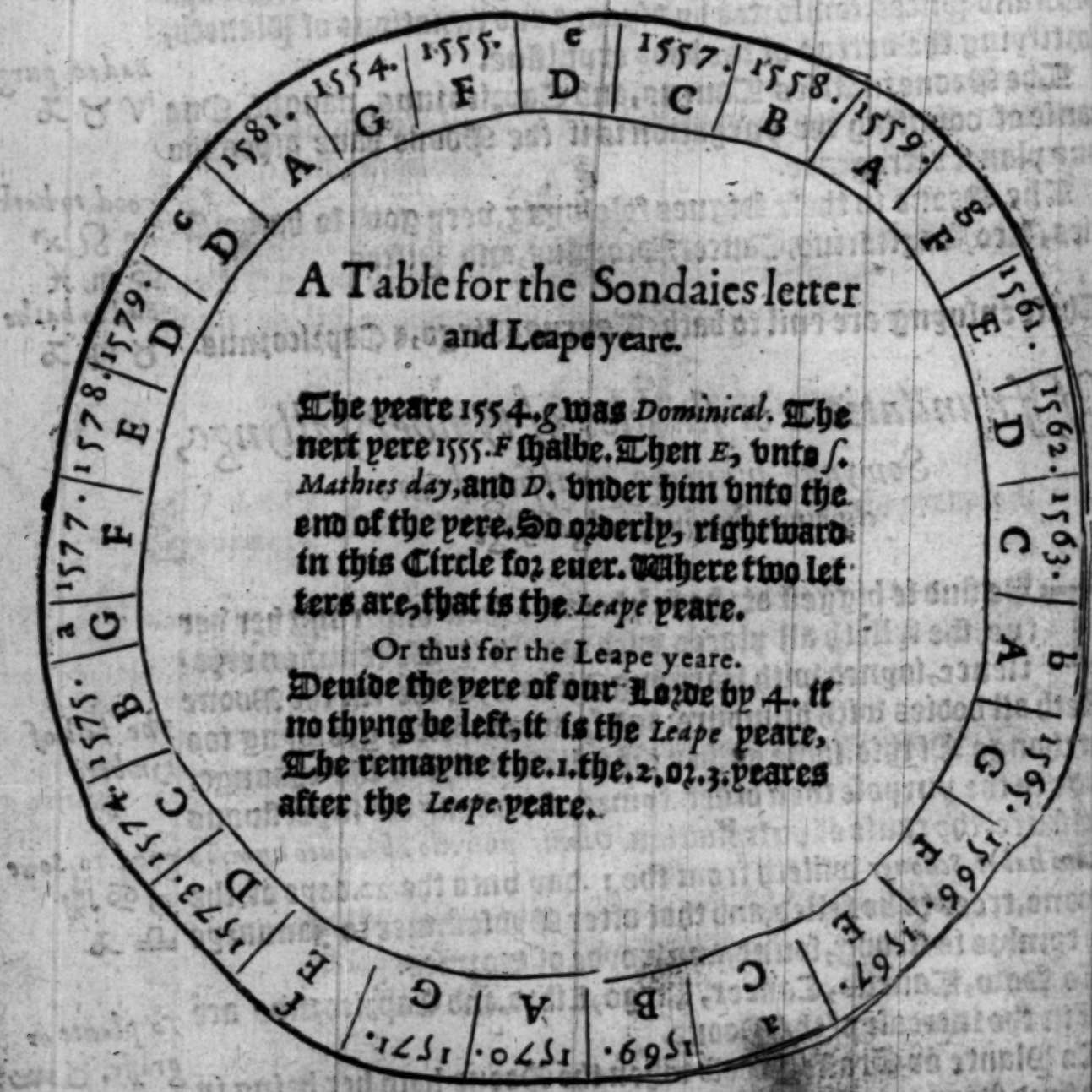
Heare cut groweth well, the Moone encreacing, being in Tau- *To cut heare* ♉ ♍ ♎
s, Virgo or Libra.

cutting

Cutting, Shaving, Clipping, in the wane causeth baldnes, what is then cut, groweth litle. *Calnitium prohibet oleum Tartari.*

The best tyme of *Cutting* is in *Cancer, Scorpio*, or *Pisces* in the wane.

These two round Tables that now ensue, cõduce to the rest folowing.



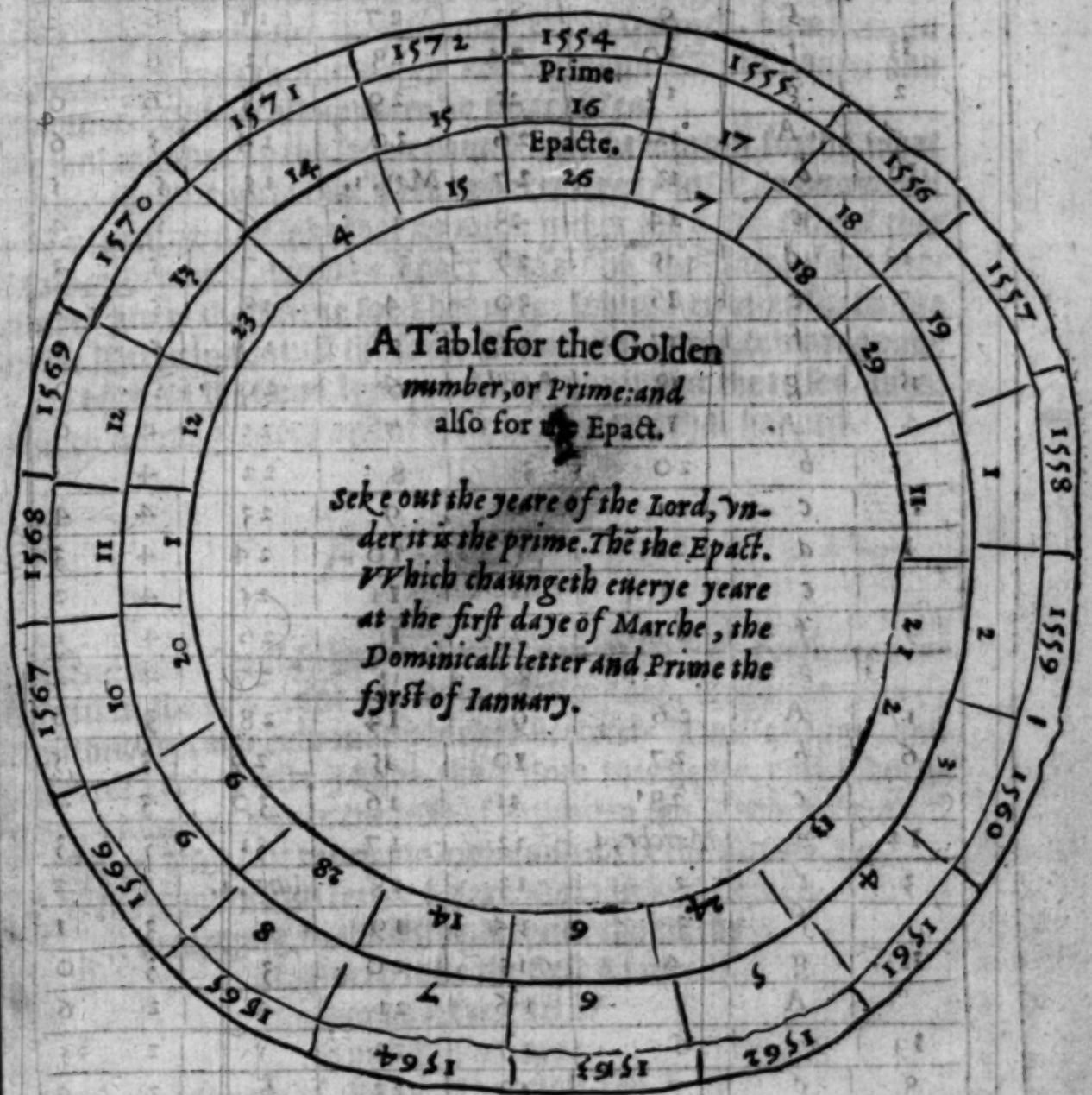
A Table for the Sondaies letter and Leape yeare.

The yeare 1554. *g* was *Dominical*. The nert yere 1555. *F* shalbe. Then *E*, vnto *S. Mathies day*, and *D*. vnder him vnto the end of the yere. So orderly, rightward in this Circle for euer. Where two letters are, that is the *Leape* yeare.

Or thus for the Leape yeare.

Deuide the yere of our Lorde by 4. if no thyng be left, it is the *Leape* yeare. The remayne the. 1. the. 2, or. 3. yeares after the *Leape* yeare.

When ye haue gone round about the yeres, of these two Tables beginne againe.



A Table for the Golden *number, or Prime: and* also for the Epact.

Seke out the yeare of the Lord, vnder it is the prime. The the Epact. Which chaungeth euerye yeare at the first daye of Marche, the Dominicall letter and Prime the fyrst of Iannary.

The prime.	The sondaies letter.	The first Lent sonday.	Easter daye.	Rogation.	whitsontide.	Betwixt whitsond. & midso.
16		Februarie.	Marche.	April.	Maye.	wek. daies
5	d	8	22	26	10	6 3
	e	9	23	27	11	6 2
13	f	10	24	28	12	6 1
2	g	11	25	29	13	6 0
	A	12	26	30	14	5 6
10	b	13	27	May. 1.	15	5 5
	c	14	28	2	16	5 4
18	d	15	29	3	17	5 3
7	e	16	30	4	18	5 2
	f	17	31	5	19	5 1
15	g	18	April. 1	6	20	5 0
4	A	19	2	7	21	4 6
	b	20	3	8	22	4 5
12	c	21	4	9	23	4 4
1	d	22	5	10	24	4 3
	e	23	6	11	25	4 2
9	f	24	7	12	26	4 1
	g	25	8	13	27	4 0
17	A	26	9	14	28	3 6
6	b	27	10	15	29	3 5
	c	28	11	16	30	3 4
14	d	Marche. 1.	12	17	31	3 3
3	e	2	13	18	Iune. 1.	3 2
	f	3	14	19	2	3 1
11	g	4	15	20	3	3 0
	A	5	16	21	4	2 6
19	b	6	17	22	5	2 5
8	c	7	18	23	6	2 4
	d	8	19	24	7	2 3
	e	9	20	25	8	2 2
	f	10	21	26	9	2 1
	g	11	22	27	10	2 0
	A	12	23	28	11	1 6
	b	13	24	29	12	1 5
	c	14	25	30	13	1 4

The vse of this Table appointed for the moueables Feastes.

THis Table conteineth in the first title the Prime: in the second, the Dominicall letter in the third, Lent, in the fourth Easter day in the fifth, Rogation day, in the sixt Whitsonday: in the seuenth, how manye wekes and dayes are betwene Whitsondaye and Midsomer. Whiche all appeare by their titles.

Ye shal consider by the litle round Table before put forthe, what numbre the Prime is that yere, whereof ye require to knowe all these aforesayd and seke that numbre vnder the firste title of this Table ensuyng. Then seke vnder the second the Dominicall letter next after the Prime for that yere: whiche title ensueth the Prime, Directly against the same Dominical letter, towards your righte hand in the same lyne, ye shall finde vnder the titles, what Moneth and day, euery one of these aforeysaide shal happen.

Ensample.

I would knowe this yeare of our Lord M. D. LV. these moueable feastes, the first Lent Sondaye, Easter daye, Rogation dayes, Whitsondaye, and how many wekes betwixte Whitsondaye, and Midsomer daye. Firste I finde the prime this yeare, xvii. whyche xvii, I loke out vnder the title of Prime in the Table before. Then I seke in the nexte ordre (and after the Prime, for the Dominicall letter ẏ yere. Now in right order, accordyng to the titles, I fynde the thirde of March to be the first Lent Sonday: the. xiiii of April Easter day: the. xix. of Maye, Rogation the. ii. of June, Whitsonday: and. iii. wekes, and one daye betwixte Whitsonday, & Midsomer day. Thus for euer.

How to knowe the age of the Moone, then the chaunge, and quarter for euer,

FIrst learne the Epact, (as I haue instructed) for that yer ye seke to knowe the age of the Moone, then recken how many dayes is past of that moneth, which daye ye desir to know the age. Put that noumbre to the Epact. The begin at Marche, and recken for euery moneth from hym forderl one, vntil your said day, including both the moneth of Marche, ar also the moneth of your sayd daye. Adde all these dayes vnto you former numbre: putting away as many xxx dayes, as ye find. Th rest, is the age of the Moone. The Age found, the Chaunge is kno wen. If ye adde .vii. daies to the chaunge, ye haue the first quarte then 7. dayes, and somewhat more, sheweth the Full: and so to t adding 7. and more, bringeth the Last quarter. thus by 7. vnto th Newe Moone.

Ensample.

The x. day of January, the yeare then being M. D. L. II. I desir the age of the Moone. I fynde the Epact vntill Marche ensuing t be xxvi. that added vnto x. maketh xxxvi. then a. xi. for the monthes frō Marche to January, including both Monethes, bringeth. xlvi now xii. pulled awaye, leueth xxxiiii. the age of the Moone.

Now ensueth two perfect Tables, declaring the true Hour and minute of Ebbyng and Flowyng, in most coastes of England.

Quin South-ampton. Ports-moth.		Redban Aberdē		Graues ende.		Dūder. S. And.		Age of the Moon	London Tinmot Hertle pole.		Ber-wyke.		Erith. Let ky. Dūbar.		Falmot	
South.		S b w.		S S w.		S w b S			S w.		S w b w		w S w		w b S.	
H.	M.	H.	M.	H.	M.	H.	M.	☽	H.	M.	H.	M.	H.	M.	H.	M.
12	48	1	33	2	18	3	3	1	3	48	4	33	5	18	6	3
1	36	2	21	3	6	3	51	2	4	36	5	21	6	6	6	51
2	24	3	9	3	54	4	39	3	5	24	6	9	6	54	7	39
3	12	3	57	4	42	5	27	4	6	12	6	57	7	42	8	27
4	0	4	45	5	30	6	15	5	7	0	7	45	8	30	9	15
4	48	5	33	6	18	7	3	6	7	48	8	33	9	18	10	3
5	36	6	21	7	6	7	51	7	8	36	9	21	10	6	10	51
6	24	7	9	7	54	8	39	8	9	24	10	9	10	54	11	39
7	12	7	57	8	42	9	27	9	10	12	10	57	11	42	12	27
8	0	8	45	9	30	10	15	10	11	0	11	45	12	30	1	15
8	48	9	33	10	18	11	3	11	11	48	12	33	1	18	2	3
9	36	10	21	11	6	11	51	12	12	36	1	21	2	6	2	51
10	24	11	9	11	54	12	39	13	1	24	2	9	2	54	3	39
11	12	11	57	12	42	1	27	14	2	12	2	57	3	42	4	27
12	0	12	45	1	30	2	15	15	3	0	3	45	4	30	5	15
12	48	1	33	2	18	3	3	16	3	48	4	33	5	18	6	3
1	36	2	21	3	6	3	51	17	4	36	5	21	6	6	6	51
2	24	3	9	3	54	4	39	18	5	24	6	9	6	54	7	39
3	12	3	57	4	42	5	27	19	6	12	6	57	7	42	8	27
4	0	4	45	5	30	6	15	20	7	0	7	45	8	30	9	15
4	48	5	33	6	18	7	3	21	7	48	8	33	9	18	10	3
5	36	6	21	7	6	7	51	22	8	36	9	21	10	6	10	51
6	24	7	9	7	54	8	39	23	9	24	10	9	10	54	11	39
7	12	7	57	8	42	9	27	24	10	12	10	57	11	42	12	27
8	0	8	45	9	30	10	15	25	11	0	11	45	12	30	1	15
8	48	9	33	10	18	11	3	26	11	48	12	33	1	18	2	3
9	36	10	21	11	6	11	51	27	12	36	1	21	2	6	2	51
10	24	11	9	11	54	12	39	28	1	24	2	9	2	54	3	39
11	12	11	57	12	42	1	27	29	2	12	2	57	3	42	4	27
12	0	12	45	1	30	2	15	30	3	0	3	45	4	30	5	15
North.		N b E		N n E		N e b N		☽	N E		N e b E		E n E		E b N.	

Foy Lin. Hūber. weimot. Dertm. Plimot.		Briſto.		Milfo. Bridg⁹ water.		Portl. Peter. porte.		Age of the Moone.	Orkn. Pole. Or⁹ wel.		Diep. Lux. Le⁹ moys.		Boloig. Douer. Barwick Yarmot.		Calice.	
Eaſt.		Eb S.		EsE		SebE			SE		SebS		S sE		SbE	
H.	M.	H.	M.	H.	M.	H.	M.	☽	H.	M.	H.	M.	H.	M.	H.	M.
6	48	7	33	8	18	9	3	1	9	48	10	33	11	18	12	3
7	36	8	21	9	6	9	51	2	10	36	11	21	12	6	12	51
8	24	9	9	9	54	10	39	3	11	24	12	9	12	54	1	39
9	12	9	57	10	42	11	27	4	12	12	12	57	1	42	2	27
10	0	10	45	11	30	12	15	5	1	0	1	45	2	30	3	15
10	48	11	33	12	18	1	3	6	1	48	2	33	3	18	4	3
11	36	12	21	1	6	1	51	7	2	36	3	21	4	6	4	51
12	24	1	9	1	54	2	39	8	3	24	4	9	4	54	5	39
1	12	1	57	2	42	3	27	9	4	12	4	57	5	42	6	27
2	0	2	45	3	30	4	15	10	5	0	5	45	6	30	7	15
2	48	3	33	4	18	5	3	11	5	48	6	33	7	18	8	3
3	36	4	21	5	6	5	51	12	6	36	7	21	8	6	8	51
4	24	5	9	5	54	6	39	13	7	24	8	9	8	54	9	39
5	12	5	57	6	42	7	27	14	8	12	8	57	9	42	10	27
6	0	6	45	7	30	8	15	15	9	0	9	45	10	30	11	15
6	48	7	33	8	18	9	3	16	9	48	10	33	11	18	12	3
7	36	8	21	9	6	9	51	17	10	36	11	21	12	6	12	51
8	24	9	9	9	54	10	39	18	11	24	12	9	12	54	1	39
9	12	9	57	10	42	11	27	19	12	12	12	57	1	42	2	27
10	0	10	45	11	30	12	15	20	1	0	1	45	2	30	3	15
10	48	11	33	12	18	1	3	21	1	48	2	33	3	18	4	3
11	36	12	21	1	6	1	51	22	2	36	3	21	4	6	4	51
12	24	1	9	1	54	2	39	23	3	24	4	9	4	54	5	39
1	12	1	57	2	42	3	27	24	4	12	4	57	5	42	6	27
2	0	2	45	3	30	4	15	25	5	0	5	45	6	30	7	15
2	48	3	33	4	18	5	3	26	5	48	6	33	7	18	8	3
3	36	4	21	5	6	5	51	27	6	36	7	21	8	6	8	51
4	24	5	9	5	54	6	39	28	7	24	8	9	8	54	9	39
5	12	5	57	6	42	7	27	29	8	12	8	57	9	42	10	27
6	0	6	45	7	30	8	15	30	9	0	9	45	10	30	11	15
VVeſt.		wbn		wnw		nwbw		☽	nw		nwbn		nnw		nbw	

The vse of these Tables.

When you will know the ful Sea, seke out the name of the place, where you desire the ful water, in the head of the Tables: Or learne the pointes of the Compasse there noted: Or if you lyst, knowe of some Mariner, what Moone maketh a ful Sea there: a Southwest or South Moone. &c. Then the age of the Moone founde vnder the place or pointe of the compasse, sheweth in right order the houre and Minute of the ful Water. The Ebbe then is manifest.

Ensample.

I desire to know the Full water at London bridge, the yere of our Lord M. D. LV. the vi. day of Februarie. I find by rules before put forth the 6. daye of Februarie, the yere aforesaid, the Moone to be. xiiii. daies old. I see also vnder the title where London is S. W. whiche letters signifie that a South west Moone maketh a Ful. Sea there, and that is at. ii. of the clock, and xii. minuts past. This is wel perceiued in the first Table before put fourth, if you runne downe to the. xiiii. day of the age of the Moone, vnder Londō title.

A Note of the hower, of the day and night

The ingenious maye gather nere about the hour of the day & night, by the Mone consideration had of the pointes in those Tables of tides before noted. For the hour is orderly put vnder the pointes of the compasse.

Euery parte or pointe containinge 11. degrees and ¼: this Compasse is well figured nere about the *Centre* in the instrumente folowyng for the nyght houre, because ye may by it haue a delectable large vse of thēse tide Tables.

Howe by the first of the Tide Tables, ye may redily knowe when the Mone cometh vnto, the South, when she riseth and setteth: vvith her continuance on the earth

Seke the age of the Moone (as is opened) then resort to the first Tide table loking out that age there: So vnder ỳ South point in right order the houre appeareth, when she cometh vnto the South. Then hath she spent half that arcke that the Sunne wold haue had in that Signe, which pulled awaye, sheweth the risinge: that half arcke also added to her cōming vnto the South declareth her going downe. The arcke then that the Sunne wold haue had in the Signe, is her continuance on the earth.

☞ A Table at all times plainly and briefly declaring the breke of the day: the houre and minute of the Sunne rising, the iust length of the day the length of the night also, the very minute of the Sun setting: and the Twylight.

Monethes	Dayes.	Break of the day.	Sunne ryſinge.	Lengthe of the day	Lẽgthe of the night	Sunne ſettinge.	Twy-lyghte.	Dayes.	Monethes.	Minutes to be added, to the Lẽgth of the daye.
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.			
Ianu.	10	6 0	8 11	7 37	16 23	3 49	6 0	10	Aug.	3
	20	5 58	8 10	7 40	16 20	3 50	6 2	1		3
	1	5 54	8 0	8 0	16 0	4 0	6 6	20		7
	10	5 44	7 49	8 21	15 39	4 11	6 16	10		5
	20	5 35	7 34	8 52	15 8	4 26	6 25	1		5
Febr.	1	5 15	7 13	9 34	14 26	4 47	6 45	20	Sept.	8
	10	5 0	6 56	10 8	13 52	5 4	7 0	10		5
	20	4 50	6 36	10 47	13 13	5 24	7 10	1		5
Mar.	1	4 20	6 19	11 22	12 38	5 41	7 40	20	Octo.	13
	10	4 0	6 1	11 58	12 2	5 59	8 0	10		16
	20	3 40	5 43	12 37	11 23	6 19	8 20	1		13
Apr.	1	3 8	5 18	13 23	10 37	6 42	8 52	20	Nouẽ.	12
	10	2 40	5 1	13 57	10 3	6 59	9 20	10		15
	20	2 10	4 43	14 33	9 27	7 17	9 50	1		11
May.	1	1 30	4 25	15 9	8 51	7 35	10 30	20	Dece.	13
	10	0 30	4 12	15 35	8 25	7 48	11 30	10		13
	20	Cõtinu-	4 0	15 59	8 1	8 0		1		7
Iun.	1	all day.	3 51	16 17	7 43	8 9	Day con-	20	Iul.	3
	10		3 48	16 23	7 37	8 12	tinuall.	10		
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.			

The vſe of this table.

Conſider the Moneth and day, that ye require any of the toforeſayd: and ſeke in this Table that ſame under the title: procede in ryght ordre, ſo ye haue your purpoſe. If the uery day be not founde, take the neareſt of your table. ¶ Or by proportion the truthe is geuen: whiche all by Enſample folowyng ſhall playnly be declared.

Ensample.

The firste daye of *Ianuary*. I desire all the aforesayd: that is, the *breake of the day*: the very minute of the *Sunne rysing*, *the length of the day*, and also of *ỳnyght*, the Sunne going downe, and the twilight. I finde on the right hand of Januarye, these noumbres runnynge downe 1.10.20. whiche declare the first daye, the thenthe daye, and twenty of that Moneth, Now to my purpose, I require the breake of the day. &c. The first of Januarye, in the Table, vnder that title, on the right hande of this figure 1. I see 5 houres and 54. minutes that is 6 of the clocke wanting 6 minutes The rising of the sune in that order, is iust at 8 at this figure 8 ther declareth vnder that title in the rowe. The length of the day 8 houres, the length of the night 16 houres the Sunne setting is at 4. the twilight, at 6. and 6. minutes. Euen thus for the tenth day, and also for the twenty of that Moneth, in the rowes according to their titles in the head of my Tables.

How to worke by proportion, when the day is not founde.

I Would knowe all thaforesaid, the firste daye of Januarye. I take for ensample the breake of the day Remember the firste daye of Januarye. I did finde the breake, to be at 5 of the clocke, and 54. minutes: and the tenth day I may finde the breake of the day to be at 5 and 44 minutes, that is 10 minutes lesse. I see now. 10. daies do geue me. 10 minutes lesse. I say therfore by proportion the fifth day must geue. 5. minutes lesse then 5. houres 54 minuts whiche is 5. houres 49 minutes my request. Thus for all the other titles

The houre of the night, by the Moone, is otherwise founde then before, and that diuersly.

How by the Monne, the night houre is founde.

THe houre of her rising knowen as is opened, & a marke the made wher she shadoweth in any true fixed or mouable sun Dial, the houres and minuts from that marke al the night after, are to be added to her rising If more then. 12. surmounte, owely that aboue. 12. sheweth the true houre and minute. If at the rising she may not be sene, then by the Sūne rysing, in that very Signe (with ỳ help of this Almaneck) you may perceiue what hour she would note at her rising. Therfore from that marke counte.

An otherway.

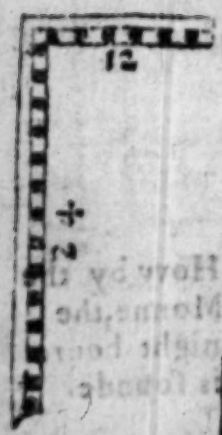
VVhen the *Moone* is at the full, looke what *houre* her shadowe sheweth in any *Dial*, that is the houre of the night. After she be past the ful 28 houres, ye must adde one *houre* But afore the Full, pull one from that ye finde in the *Dial*. If twyse 28 two *houres*. &c. So haue ye the houre of the night.

Howe the houre of the day by Right shadowe, that is by any thinge directly standing vp is knowen.

and by Squyre shadowe also.

FIrst it behoueth you to haue a *staffe*, or any other thynge deuided in xii. equal parts. When ye list to haue the houre set vp directly your deuided staffe, on a plain leuel ground or bourd &c. Note the iuste length of that shadowe, what partes it containeth. With those entre your Moneth in the Peculiar *Kalender* folowing, beholoing diligently vnder the name of ỳ Moneth, the small enclosed *Tables*: considering wel, whiche of those smal *Tables* are nereste vnto your day: and that iudge by the Signe or day there noted. That Table serueth your purpose: where you must loke out the partes of the shadow afore founde, or nere vnto it vnder or ouer the whiche the houre is set, before or after noone. Note that *two prickes* ther signifye halfe a parte more then is noted: *one pricke*, halfe a part lesse. Here it is also to be noted, that euerye *Table* hath within *two rowes of figures*, the vpper is for the staffe, the other for the *Squire shadow*. And whatsoeuer is before sayde of the one that same is ment here of the other, sauinge of the *composition*

The *Squire* must be deuided from the inward angle to the ende of one side, in 12. equal parts, euen so from that angle thother side into 24. like partes as this figure sheweth.



These to the witty suffise.

The Composition of an Instrument, for the hour of the night: which is also a perfect Dial for the day

and excelent for the Mariner

THe taking of an *Altitude* supposed, I could eratly inowe (and that without an Instrument) satisfie. For want of that knowledge make vppon a plaine bourde or rather fine plate a Circle: the bigger the better, part it into 360. portions.

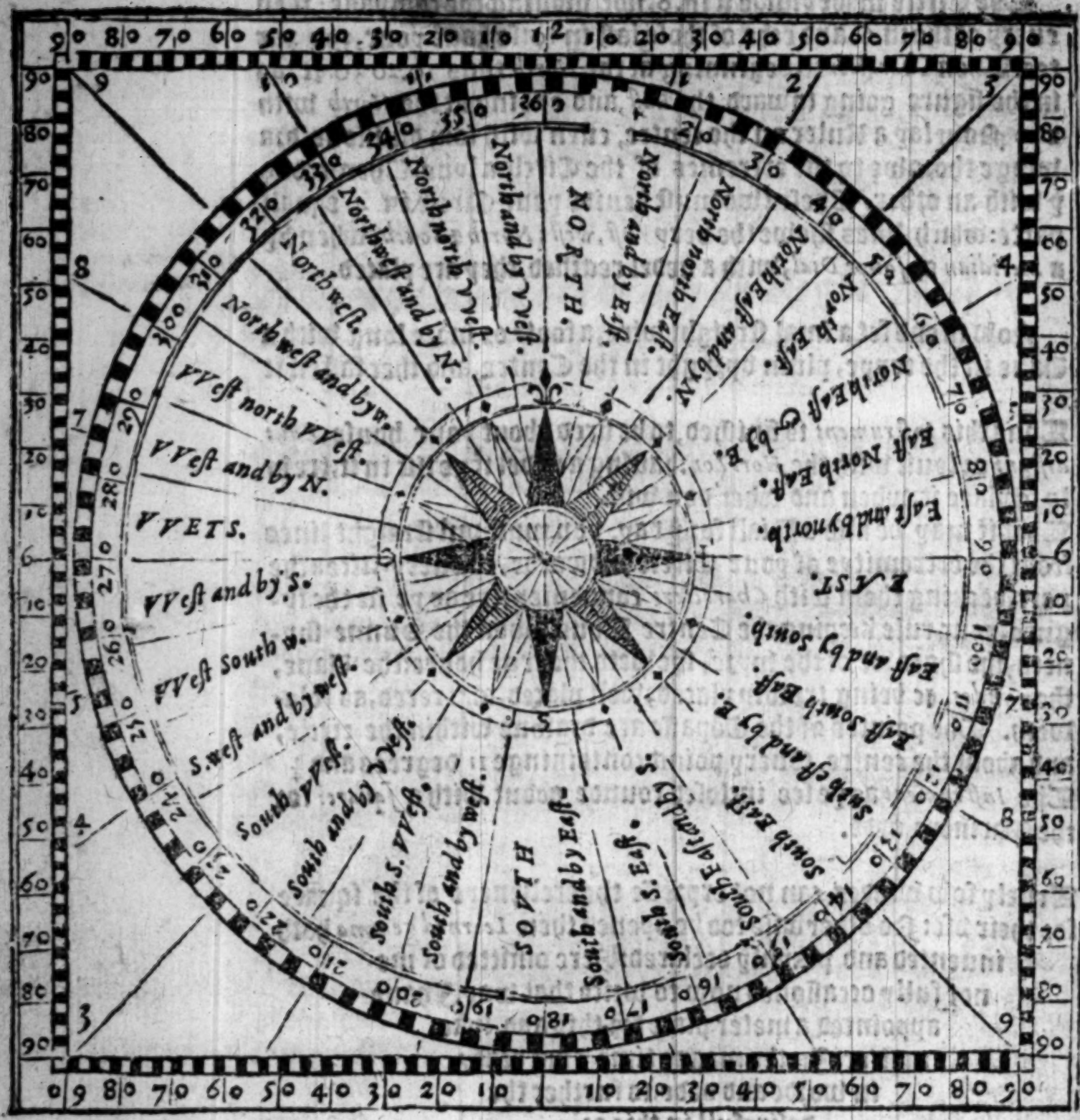
The

The Circle made diuide it in. 6. not mouing the compasse: then euery of thē in 6. and eche of those last in 10: so haue your, 390 partes. Then *Character* it, beginning at the *North* thus 10.20.30. &c. as in the figure going toward the *East*, and ending at the *North* with 360 Now lay a Ruler on the centre, euen with som diuisions, drawinge thorowe to the extremes of the Circle a lyne. Then crosse ỳ with an other. These two must deuide your Circle in 4. equall parte: which lines shewe the very *East, west: North & South*, when by a *Meridian* or *squar Dial*, with a nedel rectified, they are placed.

Now to end set a smal straight wire, a foote or more long with a Vane in the toppe, plum vpryght in the Centre, and ther fasten it

Thus this *Instrument* is finished, to be fixed about your house, *Equidistant* or leuil with the *Horizon*: hauing a nedel if ye list in it, trewly to place it, when and wher you will.
That it may be also a Diall for ỳ day, you must pul straight lines from the extremitye of your Circle outwarde, to euery fiftenthe part, becking them with *Characters* conuenientlye as ye see the figure, your rule kéeping the Centre Thus whan the Sunne shyneth, the shadowe of the wyre, sheweth the true houre: the Vane, the *wyndes*. &c being trewly placed, well placed, and rered, as foloweth. The pointes of the Cōpasse are drawne within the circle, and about the centre. Euery poinct containinge 11 degrees and ¼ The *Instrument* as ye see inclosed rounde about with a *square*: for the Mariners ayde.

Truely few wordes can not expresse the excellencye of the square for their vse: No otherwise too be opened then *Learned gemma* hath inuented and playnly declared: Here omitted of me not fully occasioned now to write that way, I haue appointed a meter place for this and lyke matter. In the meane time I am ready in worde and dede, to further the desirefull in this or any other.



Behold this Instrument for nauigation
most cõmodious, the vse of which is here only put forth
according to my Inuention.

The right rering and placing of the Dial tofore mencioned

LEt vp handsomelye your *Instrument* or *Dial* towarde the Nozth in some meete place, the syde of a squyze stynge on it, vntyll the plumet and line, centred in the extreme vpper parte of the other syde of youre squter like long, cut all that squire side, which lyeth on your Instrument, the fifth part only except: Then moue your Instrumēt, hither and thither, this oz that way, vntill the shadowe at the wyze fall vpon the houre of the daye, keping diligently your heighte befoze your *Dial* thus fired declareth all the yeare long, the exacte houre and partes thereof. No *Dial* in truth excelleth this. Haue in remembzaunce, that this instrumēt must lie leuell, nothing at all rered, foz the houre of the nyght by starre.

Inwinter the contrary superficies or plain shewveth the day houre frō ♎ to ♈

To get the exact houre by two Starres of the first light, with an Instrument or Circle, to fore deuided, first of me inuented, calculated and practised.

THe instrumēt, equidistantly set and placed, as is declared in the composition, ye ought to lay the edge of a ruler vnto the Wyze, the other nether end touching the instrument mouyng here and there, styll touching the wire, vntyll eyther Starre doth offer it self with that edge, and that by the Judgemente of the eye. Then put down discretely your ruler (euer touching the wyze) the hinder ende not moued, obseruing how many partes are cut from the Nozth, to the edge of the ruler, Enter with them the Peculiar *kalender* folowing: seking out your Moneth, placed in the middes of euery Table: then the daye of that month muste be there founde.

Fit filo aut digito, absque regula exactissime.

Note that enery table hath on the sydes, the daies thus ozdered 1.5.10.15.20.25.30. Knowe that ozder oz rowe of fygures, whiche is right against, oz nerest your day serueth the turne. The numbze oz parts befoze cut by the Ruler, and now foūd in that row of your table, sheweth the pzecise houre. If it be to litle, that houre ouer ȳ head oz vnder is not yet come: if contrary, it is past.

Howe these two bright starres, being of the first lyght are founde: the one called Aldebaran or oculus Tauri, the other Alramech.

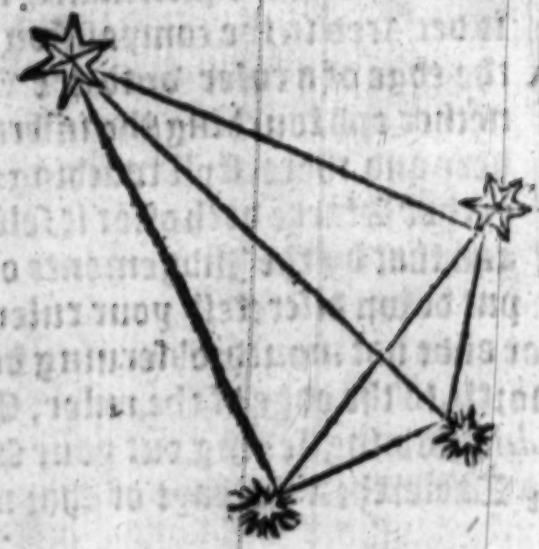
By vvhat meanes these Sterres are knovven.

THE best way is thus: The *Moneth* and *day* knowen, with the trew houre of the *nyght*, entre your Table, considering that *Moneth* and *day* obserue with partes belongeth ther too that *sterre* and *houre* Then resort to your *Instrument*, laying the edge of your ruler, as many partes from the *North, East* vvard, circõspectly lifting vp that edge, close by the wyze so the fayze Starre shineth euen with that edge.

Or thus Groselye.

Another vvay to finde them

OCulus Tauri is euer a meat rodde, and a half to the eye vnder the 7. Starres and somewhat *North* of them in the rising, *Alramech* is contrarie to him placed accompanied with thze litle dimme Starres, a rod from him by the iudgment of the sight in the forme of a Triangle thus.



Behold this Figure, the great Starre doth represent Alramech, the other thre the Triangle, vviche is placed always vvith him, But commonly there doth appeare but one Starre Of the Triangle.

Forthsy Nalsom Boote amen god bliser h
life b loge to remand one earth to bide
when she is gone: that hea
may be heaver [illegible] god amend

Triplum per me Rob
rt Nalson

Robart Nalson

per me scriptum
os metellen commitatete
et setrem it is
to collecte
you all
in the
pris
ment
of
ro
be
r

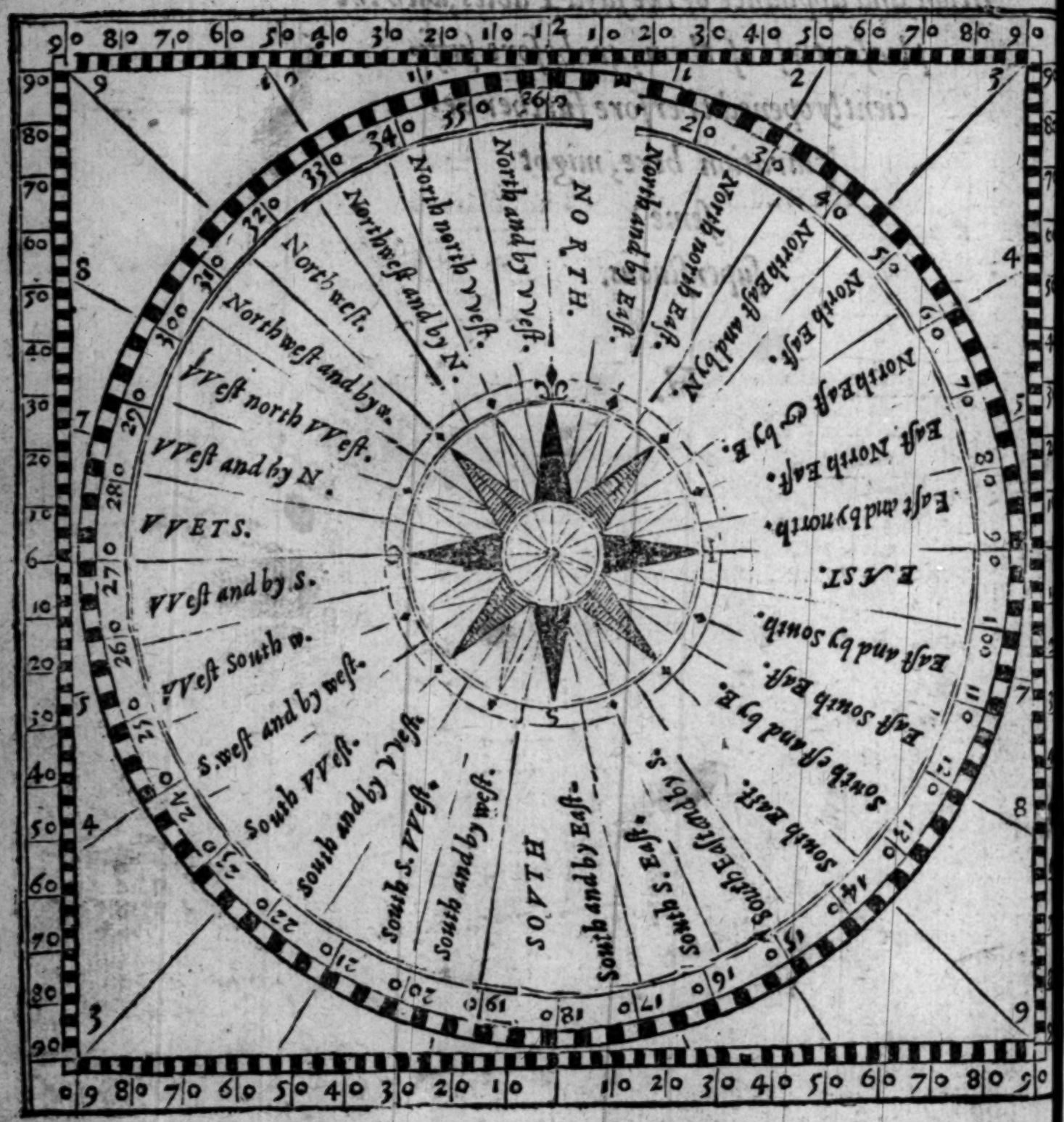
BRITISH MUSEUM

NOWE ENSVETHE THE
nedefull neceſſarye, peculiar Kalender to fore
nencioned: with Inſtruments belonging therto. The compo-
ſition, and appliance of the ſayd Tables, with the
pleaſant vſe of them, are before ſuffi-
ciently opened: therfore further de-
claration here, might
ſeme
ſuperfluous.

H.

A necessary Instrument, to finde exactly, the houre of the day, and night diuers wayes.

With helpe of this Peculiar Kalendare.



	5	6	7	8	9	10	11	12	
1	108	123	143	165	190	213	59	79	
5	112	129	150	172	197	220	63	74	
10	18	135	158	183	206	227	68	78	Oculus Tau.
15	123	247	156	192	214	233	71	81	
20	130	151	173	199	220	237	75	86	
25	137	158	183	207	228	244	79	90	Alramech.
30	144	165	191	213	237	247	82	93	

From eueninge to midnight.

For the night.

Ianuary hath.xxxi.daies.

From midnight vnto day.

1	81	93	105	121	143	168	196	
5	85	96	110	127	151	177	205	
10	89	101	116	135	160	189	124	
15	93	105	122	143	169	198	223	
20	98	111	128	152	179	207	230	
25	101	116	137	159	190	216	26	
30	190	121	144	168	198	222	242	Alramech.

1 2 3 4 5 6 7

For the day.

12 11 10 9 8 7 H

12 Staffe 36: 39: 49: 83: 550 0 — shad. 0
Squire 4: 4 3 2 0 0 — shad.
H 0 1 2 3 4 5

20 Staffe 12 11 10 9 8 7 H.
Squier 32 34 42 65: 209 0 — shad.
4 4 3 2: 1. 0 — shad. 10
H 0 1 2 3 4 5

30 Staffe
Squier 12 11 10 9 8 7 H.
27 29: 35: 52 119: 0 — shad.
5: 5 4 3 1 0 — shad. 20
H 0 1 2 3 4 5

gr.

The peculiar

Aldramech.

Oculi Tauri

Aldramech.

For the night. From midnight vnto day. From euening to midnight.

	6	7	8	9	10	11	12	
1	169	194	216	62	73	83	5	
5	174	199	222	64	75	86	58	
10	184	207	223	68	79	60	102	
15	191	214	234	71	82	94	106	
20	198	220	238	75	86	98	111	
25	205	226	243	78	88	100	116	
30								

February hath.xviii.daies.

1	108	124	164	172	201	225	
5	111	129	153	180	207	131	
10	117	136	162	190	216	237	
15	122	144	169	168	223	243	
20	128	152	198	206	230	248	
25	134	159	188	214	236	252	
30							

1 2 3 4 5 6

For the day.

8 Staffe / Squire — H

12	H	10	9	8	7	
23:	29:	30:	42:	80	6896	shad. 0
6:	6	5	3	2	0	shad.

0 1 2 3 4 5 H

18 Staffe / Squier — H.

12	H	10	9	8	7	
20	21:	25:	34:	61	226	shad. 10
7	7	6	4:	2	1	shad.

0 1 2 3 4 5 H

28 Staffe / Squier — H.

12	II	10	9	8	7	
17:	18	22:	29	45	112	shad. 20
8:	8	6:	5	3	1	shad.

H 0 1 2 3 4 5

gr. ✕

	7	8	9	10	11	12		
1	59	70	81	93	105	120		
5	52	74	84	95	108	125		
10	65	76	87	99	113	131		
15	59	80	91	103	118	138		
20	72	83	94	107	123	146		
25	75	86	98	112	151	105		
30	80	90	102	117	136	161		

Marche hath. xxxi. daies.

	142	168	196	222	241			
1	147	173	201	227	245			
5	155	183	210	23[illegible]	250			
10	163	192	218	238	255			
15	171	200	225	243	259			
20	180	208	232	249	262			
25	191	216	37	254	67			
30	1	2	3	4	5	6		

From Euening to midnigt.

From midnight vnto day

For the nyght.

Alramech.

		12	11	10	9	8	7			
11	Staffe	15	16	19:	24	37:	74			H shad. 0
	Squire	9	9:	8.	6.	4.	2			shad.
	H	0	1	2	3	4	5			

		12	11	10	9	8	7	6		
21	Staffe	13	14.	16:	21.	30	54	221		H shad. 10
	Squire	11	10	9.	7.	5.	2.	1.		shad.
	H	0	1	2	3	4	5	6		

		12	11	10	9	8	7	6		
31	Staffe	11:	12:	14.	18.	26:	43	112		H shad. 20
	Squire	11	12	10	8.	5:	3	1		shad.
	H	0	1	2	3	4	5	6		

For the day.

gra. ♈

Alramech.

For the night.

From midnight vnto day.

	8	9	10	11	12			
1	92	104	118	138	164			
5	94	107	123	145	171			
10	98	111	129	153	180			
15	101	117	135	160	189			
20	105	122	144	168	198			
25	111	128	152	178	207			
30	117	135	159	189	215			

From euening to midnight.

Aprill hath xxx. daies.

Alramech.

1	93	218	239	255				
5	99	225	244	258				
10	207	231	248	262				
15	215	236	253	266				
20	223	243	257	270				
25	230	248	262	274				
30	236	252	266	278				

1 2 3 4 5

For the day.

10 Staffe / Squire

	12	11	10	9	8	7	6	
Staffe	10	11:	13	16.	23:	36:	76:	
Squire	14	13	11:	9:	7:	6:	4:	2:

H 0 1 2 3 4 5 6 H

shad. / shad. } 0

21 Staffe / Squire

	12	11	10	9	8	7	6	
Staffe	9	9	11.	15.	21	31	58	267
Squire	16	15:	12.	9.	7	4:	2:	1

H 0 1 2 3 4 5 6 H

shad. / shad. } 10

31 Staffe / Squire

	12	11	10	9	8	7	6	5	
Staffe	8:	8	10	14	19:	28:	49	13	193
Squire	18	17	14	10.	7:	5:	3:	1	

0 1 2 3 4 5 6 7 H

shad. / shad. } 20

gr. 8

For the day.

Kalendare.

1	8	9	10	11	12			
5	117	135	160	150	216			
10	120	142	168	196	222			
15	128	152	178	206	230			
20	134	159	188	214	235			
25	143	168	196	222	241			
30	151	177	206	230	248			
	160	189	215	236	235			

May hath. xxxi. daies.

	237	253	167	278				
1	241	256	269	280				
5	247	261	273	285				
10	252	266	278	288				
15	257	270	281	292				
20	262	274	285	296				
25	256	278	288	300				
30	1	2	3	4	5			

From midnight vnto day. For the night. From Euening to midnight.

Alramech.

		12	11	10	9	8	7	6	5	H	
7	Staffe	8.	10:	13	17:	26:	43	100		shad.	0
22	Squire	20	18:	15.	11.	8.	5	3	1	shad.	
H		0	1	2	3	4	5	6	7		

		12	11	10	9	8	7	6	5	4	H	
7	Staffe	7	9.	12:	17.	24	39	82	2580		shad.	10
22	Squire	21	19	15	12	8	6	4	2.		shad.	
H		0	1	2	3	4	5	6	7	8		

		12	11	10	9	8	7	6	5	H	
6	Staffe	6:	7:	9.	12.	16:	23	37	74	565	shad.	20
32	Squire	22	20	16	12	9	6	4	2		shad.	
H		0	1	2	3	4	5	6	7			

For the day. gra. II

Alramech.

For the night. From midnight vnto day.

	8	9	10	11	12				
1	161	191	216	237	254				
5	169	197	223	242	257				
10	180	207	231	249	262				
15	191	216	237	254	267				
20	199	224	243	258	271				
25	207	231	249	262	275				
30	216	237	254	267	279				

Fume hath xxx. daies.

267	279	290	301						1
270	282	293	302						5
274	285	297	308						10
279	290	301							15
283	293	304							20
286	297	308							25
290	301	82							30

From euening to midnight.

1 2 3 4 5

For the night.

		12	11	10	9	8	7	6	5	4	H	
1	Staffe	6	7:	5	12:	16:	23:	37	74	56	bad.	0
	Squire	22	20	16:	12	9:	6:	4:	2:		bad.	
	H	0	1	2	3	4	5	6	7	8		

20. gr. II

For the day.

		12	11	10	9	8	7	6	5	4	H	
12	Staffe	6	7	9	12.	16	23	63	72	453	bad.	0
	Squire	22	20:	16.	12.	9	6:	4:	2	0	bad.	
	H	0	1	2	3	4	5	6	7	8		

gr. 29

		12	11	10	9	8	7	6	5	4	H	
23	Staffe	6:	7	9	12	16:	23	37	74	565	bad.	10
	Squire	22	20	16	12.	9	6	4:	2		bad.	
		0	1	2	3	4	5	6	7	8		

For the night.

For the day.

	8	9	10	11	12				
1	219	239	255	268	280				
5	225	244	260	272	283				
10	233	250	264	275	286				
15	238	254	297	279	290				
20	43	258	271	283	293				
25	249	262	275	286	297				
30	254	267	279	290	300				

For the nyght. From midnight vnto day. From euen ing to midnight.

Fuly hath xxxi. daies.

Alramech.

1	290	302	83					
5	293	304	86					
10	297	79	90					
15	301	82	93					
20 Alramech.	304	85	98					
25	308	89	101					
30 Oculus Tau.	82	93	106					

1 2 3 4 5

For the day.

3 Staffe / Squire

12	11	10	9	8	7	6	5	4	H
7	7:	12.	12.	16:	24	39:	82	258	shad.
21	19	15:	12	8:	6:	4:	2:		shad.

H 0 1 2 3 4 5 6 7 8

2 gr. 59

14 Staffe / Squire

12	11	10	9	8	7	6	5	H
7	8	10	13.	17	26	43	100	shad.
20	18:	15.	11.	8	5:	3:	1	shad.

H 0 1 2 3 4 5 6 7

10

24 Staffe / Squire

12	11	10	9	8	7	6	5	H
8:	8	10	14	19:	28:	46	139	shad.
8	17	14	10.	7:	5:	3:	1	shad.

0 1 2 3 4 5 6 7

10

gr. 8

3 l.

The peculiar

		6	7	8	9	10	11	12	
	1	277	288	298	80	92	104	117	
	5	279	290	392	82	94	107	122	
Alramech.	10	284	294	305	86	98	111	127	
	15	286	68	79	90	102	116	133	
	20	290	71	82	93	106	121	140	
Oculus Tauri	25	64	75	86	98	111	126	146	
	30	297	79	90	102	116	132	154	

For the night. From euening to midnight.

October hath. xxxi. daies.

	135	157	181	205	226	243			1
	141	162	188	210	231	274			5
	147	170	195	218	217	252			10
	154	178	202	225	242	255			15
	162	186	210	230	246	250			20
	169	194	217	235	251	264			25
Oculus Tauri	177	202	224	241	255	268			30
	1	2	3	4	5	6			

From midnight vnto day

For the day.

		12	11	10	9	8	7	H	
4	Staffe	20:	21	25	34:	61	226	shad.	20
	Squire	7:	7:	6:	4.	2.	1	shad.	
	H	0	1	2	3	4	5		
14	Staffe	12	11	10	9	8	7	H.	
	Squier	23	25:	30:	42:	97	6890	shad.	0
	H	9	6	5	3:	2	0	shad.	
		0	1	2	3	4	5		
24	Staffe	12	11	10	9	8		H.	
	Squier	27:	29:	35:	52	119:		shad.	10
		5:	5	4:	3	1:		shad.	
	H	0	1	2	3	4			

gr. m

From euening to midnight.

	5	6	7	8	9	10	11	12	
	287	298	80	92	104	117	135	159	
1	290	302	82	94	107	122	140	163	Alramech.
5	294	305	87	98	111	127	147	171	
10	298	80	91	103	117	135	156	180	
15	303	83	95	108	123	142	165	189	Oculi Tauri.
20	307	88	100	113	129	150	173	198	
25	81	92	104	119	136	158	183	206	
30									

From cuening to midnight.

For the nyght.

Nouember hath xxx. dayes.

From midnight vnto day.

1	182	205	226	243	257	270	281	292	1
5	188	211	231	248	261	173	285	256	5
10	196	218	237	252	265	277	288	000	Oculus Tauri
15	204	225	243	257	296	281	292	000	15
20	213	232	248	261	274	285	297	000	20
25	220	238	253	266	278	290	237	000	25
30	227	244	258	270	282	293	135	000	30

	1	2	3	4	5	6	7	8

For the day.

	12	11	10	9	8	H	
Staffe	32:	34:	42:	65	209		shad.
2 Squire.	4:	4	3	2	1		shad. 20 gr. m.
H	0	1	2	3	4		

	12	11	10	9	8	H	
Staffe	36:	39.	49.	83:	550		shad.
13 Squire	4	4	3	2	0		shad. 0
H	0	1	2	3	4		

	12	11	10	9	H	
Staffe	40:	45:	57:	104:		shad.
22 Squier	3 :	3	2:	1		shad. 10
H	0	1	2	3		

gr

Oculum Tauri

For the nyght.

Oculus Tauri.

Alramech.

	5	6	7	8	9	10	11	12	
1	81	92	105	119	136	158	183	207	
5	84	96	109	124	144	166	192	214	
10	89	101	115	132	153	175	201	222	
15	93	105	120	139	161	186	109	230	
20	98	111	127	147	169	195	217	236	
25	102	116	133	154	177	202	224	242	
30	107	122	111	163	188	211	231	248	

From midnight vnto day.

From euening to midnight.

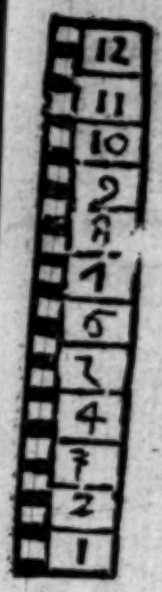
December hath xxxi. dayes.

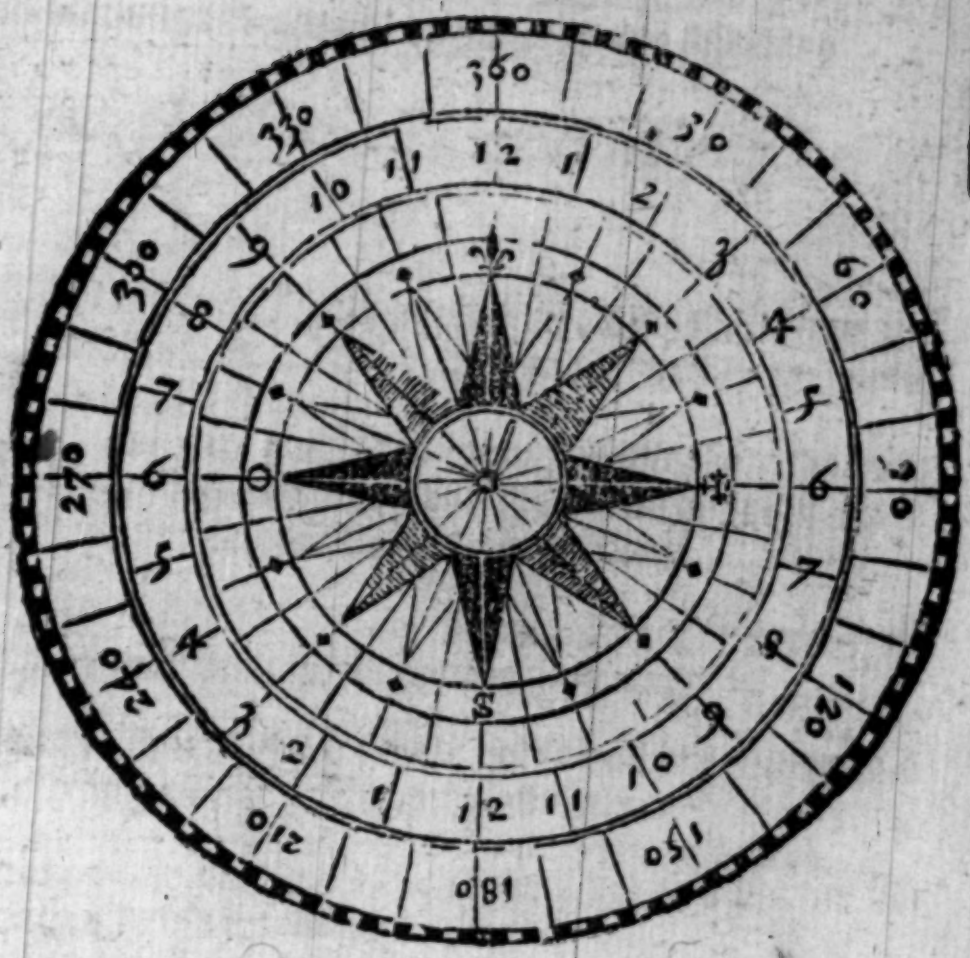
228	244	258	271	283	293	135	000	1
234	249	263	275	286	123	144	000	5
240	255	267	279	291	129	153	000	10
246	260	272	81	295	238	163	000	15
251	264	276	87	124	147	174	000	20
256	268	280	291	132	155	184	000	25
261	273	285	296	140	165	194	000	30

1 2 3 4 5 6 7

For the day.

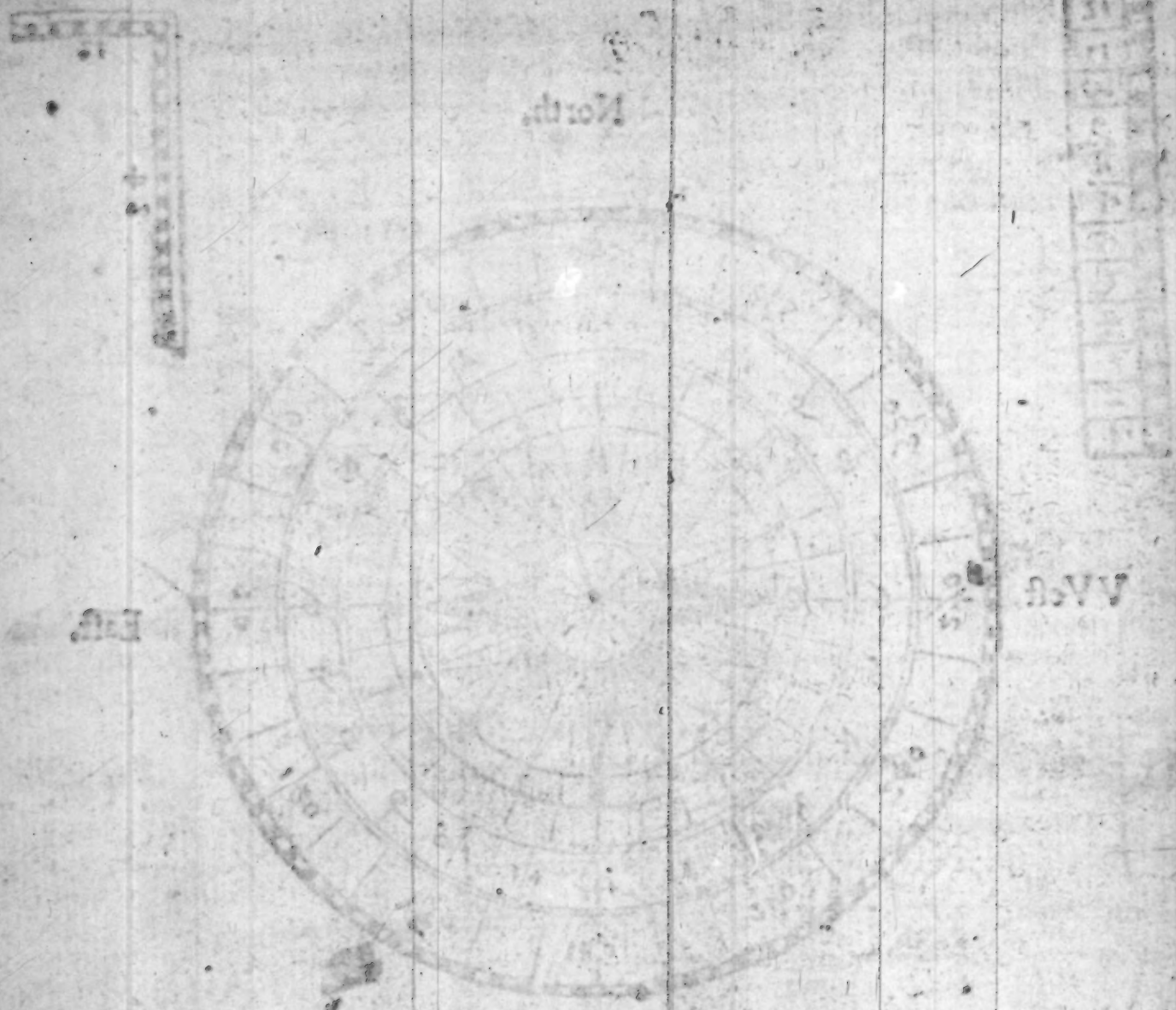
		12	11	10	9	H		
	Staffe	43:	47:	62:	122			shad.
2	Squire.	3:	3	2	1			shad. 20 gr.
	Staffe	43:	49.	65.	231:			shad.
12	Squire	3	3	2	1			shad.
	Staffe	4:	47:	62:	122:			shad.
22	Squier	3 :	3	2:				shad. 10 gr.
	Staffe	40	45	57	104			shad.
31	Squire	3:	3	2:	1:			shad. 20
	H	0	1	2	3			





From euening to midnight.
1
5
10
15
20
25
30

Thus is ended the Peculiar Kalender, very commodious for the day and night houre, I haue here adioyned the Instrument without the Square, whiche maye suffice, for the whole vse of the foresaide Kalendar, with the helpe of the Squire and Staffe.



I May not here omitte a *Kalender generall* deuided in two partes, wherof the first containeth six monethes, from *Ianuary* to *Iune*: The second other six monethes from *July* to *December*. In thys *Kalendar* are setforth the Festiuall dayes, the entring of the *Sunne* in the Signes *Celestial*, the euill dayes noted with one *Prick*. For a further declaration of those euill dayes, read this folowing.

The yeare hath .xxxiii. euill daies generall for euer.

IANVARY hath eyght such dayes, the.i.the.ii the iiii.the.v.the.x.the.xv.the.xvii.the.xix. Drinke white wine this Moneth.

Februarie hath thre dayes, the.viii.the.x.the.xvii. these not so euil, the xvi. the.xvii.the.xviii. Eate no potage of okes or mallowes: They are venemous.

Marche three dayes.the.xv.the.xvi.the.xix. this not so euill, the xviii day. This moneth, all swete meates are good.

Aprill two dais, the.xvi.the.xvi.these not so euil, the vii.the.viii the x.the,xx.Use hote meates, of light digestion.

May three dayes, the.vii, the.xv, the.xx.these not so euill, the iii the.vi.Rise early, and vse breakfast.

Iune two, the.iiii.the.vii.these not so euil, the.x.the.xi, the.xvii. Sage & lettuse are good to eat, Cold water fasting hurteth not.

July two daye, the.xv.the.xx.abstain from carnality,

August two dayes, the xix.the,xx.these not so euill, the first the xvix the xxx.It hurteth not to abstaine from potage, and all hotte meates and drinkes of spicery,

September two dayes, the.vi.the.vii.these not so euill, the iii, the iiii.the.xvi.the xvii.Eate good fruit.

October one day, the vi.these not so euill the.iiii.the.xvi.the.xviii. God wyne is holsome this Moneth.

Nouember two dayes. the,xv the.xix.these not so euill, the.v.the vi.the.xxviii, the,xxix,Blede not.

December thre dayes, the.vi.the.vii.the.ix.these days not so euill, the.xv the.xvii.the. xxii. Blede not ouer muche. Warme not thy legges at the fyre.

The generall Kalender.

¶ The first part of the generall Kalendar: from Ianuarie to Iune.

Daies	Ianuarie.	Februarie.	March.	April.	May.	Iune.
1	:A Circũci.	d	d	g	b Phi. Iac.	e
2	:b	e Purifi.	e	A	c	f
3	c	f	f	b	.d	g
4	:d	g	g	c	e	:A
5	:e	A	A	d	f	b
6	f Epiph.	b	b	e	.g	c
7	g	c	c	.f	:A	:d
8	A	:d	d	.g	b	e
9	b	c ☉ in ♓	e	A	c	f
10	:c	:f	f	.b	d	.g
11	d ☉ in ♒	g	g ☉ in ♈	c ☉ in ♉	e	A Barn.
12	e	A	A Spring.	d	f ☉ in ♊ b ☉ in ♋	
13	f Hilar.	b	b	e	g	c Sumer.
14	g	c Valen.	c	f	A	d
15	:A	d	:d	g	:b	.e
16	b	e	:e	:A	c	f
17	:c	:f	f	b	d	g
18	d	g	g	c	e	A
19	e	A	:A	d	f	b
20	f	b	b	.e	:g	c
21	g	c	c	:f	A	d
22	A	d	d	g	b	.e
23	b	e	e	A Georg.	c	f
24	c	f Math.	f	b	d	g Ioã bap.
25	d Cõ. Pau.	g	g Anun.	c Marc.	e	A
26	e	.A	A	d	f	b
27	f	.b	b	e	g	c
28	g	.c	.c	f	A	d
29	:A		d	g	b	e Pe. Pa.
30	b		e	A	c	f.
31	c		f		d	

¶ The seconde part of the generall Kalendar: from Iulie to December.

Iuly.	Auguſt.	Sepemb.	Dayes	October.	Nouem.	Decem.
g	.c Pet. Vin.	f	1	A	d Om. ſa.	f
A	d	g	2	b	e Om. ani.	g
b	e	.A	3	.c	f	A
c	f	.b	4	d	g	b
d	g	c	5	e	.A	c
e Dog beg.	A	:d	6	:f	.b	:d Nico'.
f	b	:e	7	g	c	:e
g	c	f Na. Ma.	8	A	d	f ☾ ſ. ma.
A	d	g	9	b	e	:g
b	e	A	10	c	f	A
c	f	b	11	d	g	b
d	g	c	12	e	A	c ☉ in ♑
e	A	d	13	f	b ☉ in ♐	d wynter.
f ☉ in ♌	b ☉ in ♍	e ☉ in ♎	14	g ☉ in ♏	c	e
:g	c	f Herueſt.	15	A	:d	.f
A	d	g	16	b.	e	g
b	e Dog end	A	17	c	.f	.A
c	f	b	18	d Luc.	g	b
d	:g	c	19	e	A:	c
:e	:A	d	20	f	b	d
f	b	.e Mathe.	21	g	c	e Thc. ap.
g Ma. mag.	c	f	22	A	d	f
A	d	g	23	b	e	g
b	e Bartho.	A	24	.c	f	A
c Luc. Apo.	f	b	25	d	g	b Na. do.
d	g	c	26	e	A	c Steph.
e	A	d	27	f	b	d Io. euā.
f	b	e	28	g Si. Iud.	.c	e Innocc.
g	.c decol. Io.	f Micha.	29	A	.d	f Tho.
A	.d	g	30	b	e Andre.	g
b	e		31	c		A

The generall Kalender.

To the briefe vse of this Generall Kalendar.

ENtre the Columpne where yours *Moneth* is noted in the hed, ye shall there synde running downe the Colūpne the *Festiuall* dayes of that Moneth, the entrie of the *Sunne* in the *Coelestiall Signes*, the *Euill* dayes pricked &c.

I wouldе haue placed in this *Kalendare* the *Fayres*, *Termes* also, but that canne not remaine continuall true: For those that ensue monable Feastes are moueable, and therfore may haue no certayne place, For the *Termes*, note these preceptes following The *Fayres*, shalbe declared by two *Tables* immediatly ensuyng this *Kalender generall*.

Howe to know the Termes.

KNowe therfore, that *Easter Terme* alwayes begynneth the 18. daye after *Easter*, rekening *Easter daye for one*: and endeth the *Monday* nert after the *Ascention day*.

Trinite Terme beginneth the *Friday* nert after *Corpus Christi* daye: andendeth the *Wednesday* fortnight after.

Michaelmasse Terme beginneth the 9 or 10 day of *October*: and endeth the 28 or 29 of *November*.

Hilary Terme beginneth the 23 or 24 day of *Ianuary*: and endeth the 12 or 13 day of *Februarye*.

FINIS.

A Table containinge the Moneth, Day, and Place of the principall Faires of England: to be augmented at pleasure in order following.

January. The 6. day at Bzistow, at Salisbery. The first of *Lent* at Exeter

February. The 2. day at Bathe, at Paydstone. The 14. at Feuersame. *Ashwednesday*, at Lychfelde, at Royston, at Tamwozthe. The first mondaye in *Lent*, at Cisster, at Abington. The 24. at Henlye vppon Temmes, at Tewkesbury.

Marche. The 4. *Sonday in Lent*, at Stanfozde, at Sudbery. The (. Sonday at Grantam, at Salibury, the Monday befoze our Ladye daye at Wisbich Palme euen The 13. at Wye. The 25. at Nozthampton, at Great Chart at Waulden.

April. The 5. day at Walyngfozd. The 7. at Darby. The 9. at Byckelwozth, at Bylling wozth, at Ealam the *Munday* after, The 3. *Sonday* after *Easter* at Louth. The 23. at Charing, at Ipswiche, at Amtill, at Yinigam, at Gilfozde The 25. at Darby. The 26. at Tenterden.

May. The 1. day at Stow the olde, at Readynge, at Paydstone, at Leicester, at Chensfozd The 8. day at Beuerly, Ascention day, at Birmingcham, at S. Edes, at Byshoppes Stat fozde. *Whitsondaye*, at Kingstone vpon Temmes. Trinity Sondaye, at Rowel, at Cranbzoke. the 19. day, The 27. day at Lenham.

June. *Corpus Christi*, at Couentrye, S. Edes, at Byshop Stanfozth, at Rosse. the 9 at Paidstone. The 11. at Okingã. The at 23. Shzowsbury, at S. Albons. The 24. at Cambzidge, at Glocestrs, at Lincoln, at Winsoz Colchester. The 29. at Woller Yaupton at, Peterborow. The 17 at Folkston. The 24 Yerisã. The 28. at Yetcozn.

A Table

A Table containinge the Moneth, Day, and Place of the principall Faires of England: to be augmented at pleasure in order following.

July. The 11. daye Horse fayre at Partney at Nabor, at Felix. The 12 day at Lyd. The 2 . at Pinchbacke. The 17, at Wynchecome. The 2 , at Arsbridge, at Cattesby, The 22. at Narborow, at Winchester at Colchester, at Tetbery The 25, at Bristow, at Dover at Chilham, at Ipswitch, at Northhampton, at Darby, at S. James by London, at Reading, at Lowth, at Paelsbery.

August. The 1. day at Feuersame, at Dóstable, at S. Edes, at Burbort at Parram Churche, at Wysbyche. The 6, at Rumney. The 10. at Bedford, at Fernam, at Strodes, at Blakamore S. Lau at Walton. The 24. at London, at Tewrsbery, at Sudbery, at Norwiche at Northalerton, at Dover, at Rie. The 28. at Ashforde.

September. The 8. day at Cambridge, at Sturbridge, at London in Southwork, at Smide, at Recoluer, at Partney thre Lady daies. The 14. at Waltam Abbie, at Wotton vnder Hedge, at Smaldynge. The 21. at Croydon, at Hulden in Horderneste, at S. Emondes bery. at Paulton, at S. Jues, at Haldy Lanam, at Wyltenrall, at Sitting borowe, at Dover, at Estrie. The 29. day at Canterbury.

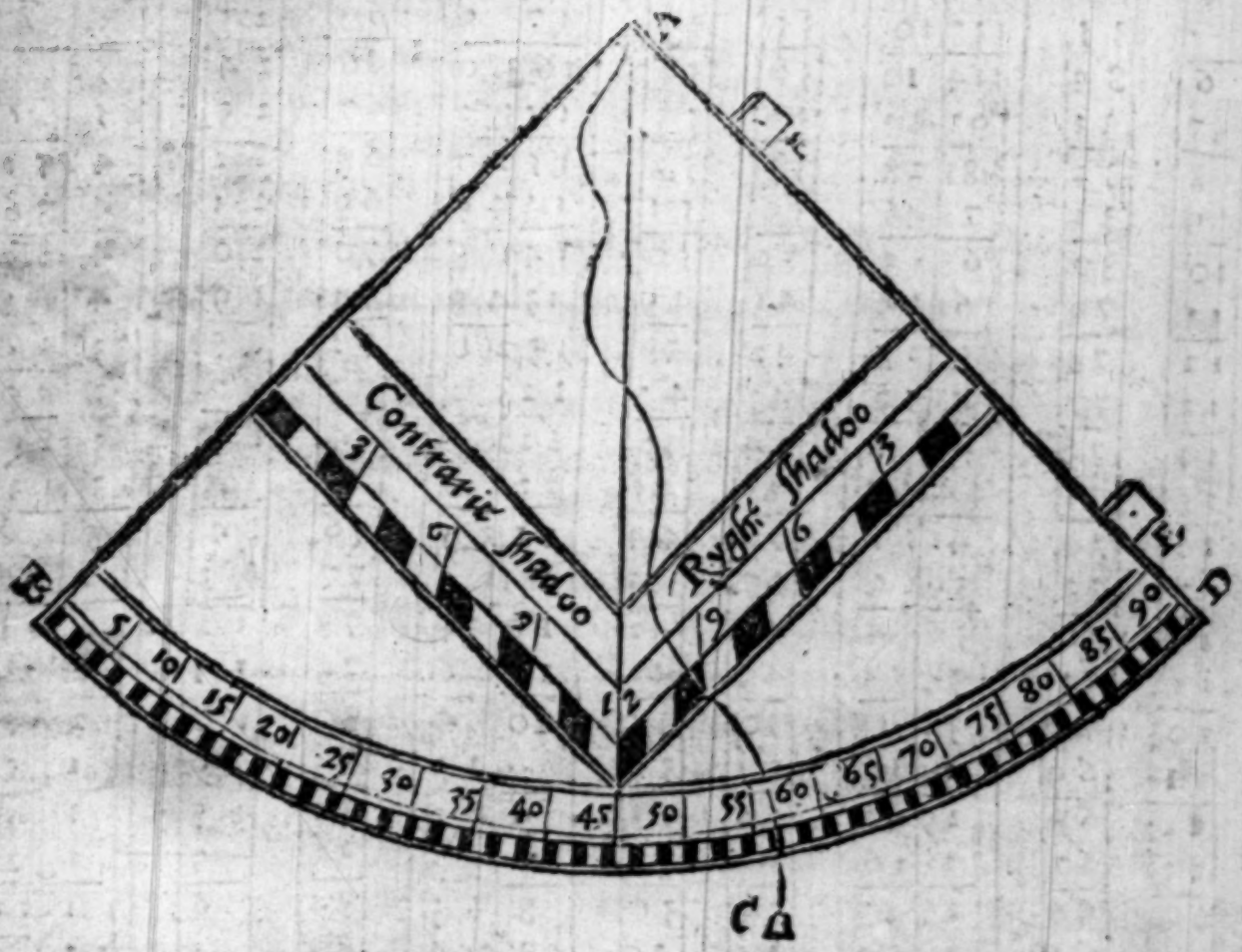
October. The 6. daye at S. Stithes besides Norwitche. The 13. at Graues ende, at Winsor, at Marchefelde. The 18. at Elye, at Staneton, at Charing. The 2 . at Harford. at Ciciter, at Newmarket

November. The 2. daye at Kingston, at Blechinglye. The 6. at Newporte ponde at Standly. The 11. at Dover. The 13. at S. Edmondes bery The 20. at Hyth. The 23 at Sandwyche. The 30. at Rochester, at Maydenhead.

December. The 29. at Canterbury. The 5 at Pluckley. The 6. at Spaldynge. The 7. at Sanderst.

BEcause I vnderstand many are desirous how to get exactly the iust length of *Staffe* and *Squier* shadow before treted of, vppon vnleauell groundes, or other wayes wher so ouer it be, yea without eather *Squier* or *Staffe*. I haue calculated a *Table* folowing, thorow ly satisfying them, so that they get the height of the *Sunne* any waye, or as I shall now enstruct.

Behold this *Instrument* called a *Quadrant* the iust fourth part of a *Circle*, euen suche a *Circle* as I taughte you before to make for the nyght *Dyall* cõtaining the fourth part of his diuisions, that is 90. degrees, onely two sightes and a plume lyne added, to be placed at the beginning of this booke as ye may there: and here see. I haue here also put the *Scale* to the *Quadrant*, whiche serueth well for shadowes, and as well for heyghtes. The vse of this *Scale* is declared in my boke called *Tectonicon*.



How by this Instrument to get the height of the Sunne at all tymes.

LAste vp hansomly your *Quadrant* the *Sunne beames* persynge ȳ sightes. The *Plowmet* and *Lyne* then at liberty fallinge, noteth there the degrees of height at that present, with the whyche that shal entre this *Table* immediatly folowing, to get them, and in like maner at all other times the iust shadow of the *Staffe* or *squier*.

A Table

A Table generall of Shadowes, right and contrary: for euery grade of the Sunnes heyght: The thinge causing Shadowe, supposed 12 partes.

Heyght of the Sunne.		Staffe. Shadow.		Heyght of the Sunne.		Staffe. Shadow.		Heyght of the sunne.		Staffe. Shadowe.	
G	g	P	M	G	G	P	M	G	g	P	M
0	90	Sha	m.	30	60	20	47	60	30	6	56
1	89	687	34	31	59	19	58	61	29	6	39
2	88	343	43	32	58	19	12	62	28	6	23
3	87	228	59	33	57	18	29	63	27	6	7
4	86	171	37	34	56	17	47	64	26	5	51
5	85	137	10	35	55	17	8	65	25	5	36
6	84	114	10	36	54	16	30	66	24	5	1
7	83	97	49	37	53	15	52	67	23	5	6
8	82	85	28	38	52	15	21	68	22	4	51
9	81	75	46	39	51	14	49	69	21	4	36
10	80	68	3	40	50	14	18	70	20	4	22
11	79	61	44	41	49	13	48	71	19	4	8
12	78	56	27	42	48	13	20	72	18	3	54
13	77	51	59	43	47	12	52	73	17	3	40
14	76	48	8	44	46	12	26	74	16	3	26
15	75	44	47	45	45	12	0	75	15	3	13
16	74	41	51	46	44	11	35	76	14	3	0
17	73	39	45	47	43	11	11	77	13	2	46
18	72	36	4	48	42	10	48	78	12	2	32
19	71	34	51	49	41	10	26	79	11	2	20
20	70	32	58	50	40	10	4	80	10	2	7
21	69	31	16	51	39	9	43	81	9	1	54
22	68	29	42	52	38	9	22	82	8	1	41
23	67	28	16	53	37	9	3	83	7	1	29
24	66	26	57	54	36	8	43	84	6	1	16
25	65	25	44	55	35	8	24	85	5	1	3
26	64	24	37	56	34	8	6	86	4	0	50
27	63	23	33	57	33	7	48	87	3	0	38
28	62	22	34	58	32	7	30	88	2	0	25
29	61	21	40	59	31	7	13	89	1	0	12
30	60	20	47	60	30	6	56	90	0	0	0

Heyght of the Sunne.	Squier. Shadow	Heyght of the Sunne	Squier. Shadow.	Heyght of the Sunne.	Squyer. Shadow.

The vse of this Table, and first for Staffe Shadow

Ensample.

I suppose the height of the Sune taken by the *Quadrat* 34 degrees, nowe I require the eracte length of *Staffe* and *Squier* Shadowe. For ryght shadowe, first seke out the degrees in the left part of the *Table* and vnder this title the heighte of the Sun: if thet be not in that lefte rowe downewardes, resorte too the nert rowe and lyke tytle, vntil ye fynde the degrees, then in right order toward the right hand, in the nert Columpne vnder the title of *Staffe Shadow*, are 17 partes and 47 minutes, your desyre.

For Squier Shadowe, titled contrary Shadowe.

Seke your degrees in the ryghte parte vpwarde at thys title *Heyght of the sunne*, in the botome of this *Table*, then shal ye find on the right hand of 34 degrees, in the nert Columpn 8 *partes* and 6 *Minutes*: that is the very lengthe of *Squier shadowe*, when the Sunne is 34 degrees in height.

Occasioned I cannot here omitte an other *Table* faythfullye supputated for the *Sunnes altitude*, by the which with quicke speade the houre is knowen. This *Table* conducteth many, folde wayes, yea to the Composition of diuers and many Instrumentes: as *Quadrantes, Nauicles, Cylinares, Rynges. &c.*

Beholde now it doth ensue, and also the vziel vse of it.

A Table of the Sunnes altitude, for euery houre the Pole mounted. 51. degrees 30. Minutes, exactely calculated.

Houres before n.		Houres after n.		12		11		10		9		8		7		6		5		4	
						1		2		3		4		5		6		7		8	
S.	G	S	G	G	M	g	M	g	M	g	M	g	M	g	M	g	M	g	M	g	M.
	30	♋	0	62	0	59	43:	53	45	45	42:	36	42:	27	23:	18	11	9	28:	1	1.31.
	25		5	61	54:																
	20		10	61	37:	59	21.	53	26:	45	24.	36	25	27	6	17	54	9	9.	1	13:
	15		15	61	9:																
	10		20	60	30:	58	17.	52	2:.	44	32	35	35	25	16.	17	3	8	16.	0	16:
	5		25	59	41:																
♊	0	♌	0	58	42:	56	34.	50	55:	43	6.	34	13.	24	56:	15	41:	6	50.	0	0
	25		5	57	34.																
	20		10	56	17:	54	15	48	48:	41	10.	32	22.	23	6.	13	50	4	55:	0	0
	15		15	54	52:																
	10		20	53	21:	51	26:	46	12:	38	46:	30	6.	20	52.	11	34.	2	34.	0	
	5		25	51	43:																
♉	0	♍	0	50	0	48	11.	43	11.	35	58	27	27.	18	13.	8	59:	0	0		
	25		5	48	12:																
	20		10	46	20:	44	37.	39	51	32	53:	24	32.	15	27.	6.	8:	0	0		
	15		15	44	25:																
	10		20	42	23:	40	51:	35	18	29	3 :	21	29:	12	25:	3	6.	0	:		
	5		25	40	20:																
♈	0	♎	0	37	3 :	36	58	32	37.	26	7:	18	8.	9	16.	0	0				
	25		5	36	30																
	20		10	34	32.	33	4	28	55:	22	38:	14	51:	6	7	0	0				
	15		15	32	35.																
	10		20	30	40.	29	16.	25	18	19	14:	11	33	3	2:	0					
	5		25	28	48																
♓	0	♏	0	27	0	25	42	21	51:	15	59:	8	34.	0	6.						
	25		5	25	17.																
	20		10	23	39	22	22.	18	42:	13	1:	5	45:	0	0						
	15		15	22	8.																
	10		20	20	43.	19	29	15	55.	10	23:	3	17	0							
	5		25	19	26:									0							
♒	0	♐	0	18	18.	17	6	13	38:	8	13:	1	15.	0							
	25		5	17.	19.																
	20		10	15	30.	14	48:	11	55.	6	36:	0	0								
	15		15	15	51.																
	10		20	15	23.	14	13:	10	52:	5	35.	0									
	5		25	15	6																
♑	0		0	15	0.	13	51	10	30.	5	15.										

When the Sunne cutteth the 22. grade of ♋ he toucheth our Horizon at 4. in the morninge Entring the 22 of ♑ he ryseth at 8 in the fyrste of ♉ at 5. in the first of ♍ at 7. Note in all my tables, one pricke following the Minutes, diminisheth: two, augmenteth some smale quantitye.

The briefe vse of this Table.

SUppose the height of the *Sunne* taken by the *Quadrante*, 8 degrees and 13 Minutes, the *Sunne* being in the beginning of *Aquarie* or *Sagittarie*, I seke, & fynd in this *Table* and in the *Rowe* whiche directely aunswereth ♒ and ♐ 8 degrees & 13 Minutes: that is agreable to 9 or 3 of the clocke in the head of this *Table*. Therfore I pronounce that when the *Sunne* was 8 degrees and 13 Minutes in heyght, entryng ♒ or ♐. it was precise 9 of the clocke in the morning, or 3 at after *Noone*. Thus at all tymes ye may know the iust houre.

Ye maye also conclude the heyhte of the *Sunne* at all tymes, the place of the *Sunne* knowen, and the houre. *Note* when the precise numbres eyther of heyght, or degre of the *Sunne* are not founde in the *Table*, then make *proportion* according to the difference. &c. Practise better then many woordes openeth thys Nowe to ende this matter, this folowinge to him that hathe tasted these knowledges I wryte.

Dato loco Solis & eius altitudine, horam ipsam calculare,

DVc sinum inuente solaris altitudinis, in sinum arcus semidiurni, & productum diuide per sinum altitudinis meridianæ eiusdē Solis, & prouenientis inde partium numeri sumito arcum, quem tandem in horas uertas: Collectus horarum numerus quesitam indicabit horam: ab ortu quidem Solis, si altitudo fuerit ante meridiana, uel ab occasu, si eadem Solis altitudo acciderit post meridiem.

NOw hauing sume occasion I could here adioyne a brief *Supputation Sinical*, touching most workinges *Astronomicall*, but how farre that passeth the capacitie of the common sorte of men, they that be trauailed knowe. For this cause I leaue to geue any precepts this way: desiring prouocation mete to haue to do in the lyke: then God suffering my pen shall not stay to open readye chosen generall wayes, for pleasaunt *Astonomical* operation.

HEre shall nowe folowe briefly collected certayne rulles performed before by *Tables*. but nowe doone by quicke *supputation*, to be had in memory, by that auoiding cariage or burayne of bookes.

Away to get the Golden number or Prime without a Table.

ADde vnto the yeare of our Lorde 1. then deuide that summe by 19. the remayne is the *Prime* or *Golden number*.

The Epact is thus euer founde.

MUltiply the *Prime* by 11. deuide by 30. the remayne is your desier. These two numbers begin at *March*, there is chiefly to finde out the *Chaunge*, *Quarters*, and *ful Mone* as ensueth.

A rule for the Chaunge, Full and Quarters of the Moone,

PUt vnto the *Epacte* all the moneths from Marche including the Moneth of March: pul then that summe frō 30. the remaines sheweth the day of the chaūge.

Here note the full Moone is the 15. daye after the chaunge. Also if the remain be lesse then 15. subtract that lesse from 15. the rest is the full Moone.

If the remayne passe 30. subtract it from 45 then the full dothe also appeare.

To conclude, if from the ful Moone ye pull 15. dayes, haue the chaunge going before. The chaunge had, the *Quarters* are knowen by adding or pulling away 7 dayes.

For the age of the Moone, worcke thus for euer.

ADde to the dayes of your moneth the *Epacte*, & also as manye dayes more as are Monethes from *Marche* to your Monethe, includyng both Monethes. Now subtract 30 if ye maye, the age then remayneth.

NOw shalbe declared what Signes and degrees the Moone differeth from the Sunne, by whiche is gathered at all times the Signe and Grade wherin she is.

Multiply

Multiplye the age of the *moone* by 4, deuide by 10. the *Quotient* sheweth the *Signes* that the *Moone* differeth from the *Sunne*. The remayne augmented by 3 bringeth degrees to be added. Ye muste put theese *signes* and degrees too the place of the *sunne*, the product, I meane the Increase or ende of all these *signes* and *degrees*, in order counted frō the *sunne* declare: the place of the *Mone* in the *zodiake*.

The place of the Sunne in the Zodiake is thus found.

First know that the 11 day of *Ianuary*, the *sunne* is entred ♒ the 10. daye of *February* ♓. The 11 of *Marche* ♈. The 11. of *Aprile* ♉ The 12 of *May* ♊. The 12 of *June* ♋. The. 14. of *July* ♌. The 14 of *August* ♍. The 14. of *September* ♎. The 14. of *October* ♏. The 13. of *Nouember* ♐. The 12 of *December* ♑.

This knowen, the place of the *Sunne* is well found, addinge for euery day past any entrey 1 degre.

Ensample.

I Require the place of the *Sunne* the 21. daye of Auguste. I fynde that the Sunne is entered in ♍. the 14. daye of the Moneth. I must for euery day past anye entrey adde 1 degree. There are 7 dayes past that entrey, then I conclude the *sunne* readye to haue place in the 8. degree of ♍ the. 21. of *August*.

To know how long the Moone shineth.

For her shyning. in the encrease multiply the age of the Mone by 4. In the Wane augment the rest of the age which she lacketh of 30 by 4 and deuide by 5 the *Quotient* sheweth ỳ houres: the remaines if ther be any, multiplied be 12 bringeth minutes to be added.

How the moueable Feastes are founde readily.

Se the chaunge of the *Noone* in *February*, for that yee require theese *Moueable feastes*. Note what daye it falleth on the nert tuesday is *Shrouetuesday*. But if the chaunge be on tuesday, then the nert tuesday ensuing is it. The nert Sonday is the first *sonday of Lent*. Sixe Sondayes after is *Easter day*. Adde. 35. dayes or 5. weekes too *Easter day*, ye haue *Rogation sonday*. To that adde. 4. dayes so haue ye *Ascension day*. Then haue ye 10. dais to *Whitsonteyde*. Seuen dais after is *Trinity sonday*. And four dayes after is *Corpus Christi day*.

Without Tables at al times to know the Tydes,

Learne as is declared the age of the *Moone*, also remember the houre of the full, or chaunge, for your place or poinct whiche dothe neuer vary, these knowen worke thus.

Ensample.

When the *Mone* is 10. dayes old, I desire to know at what of the clocke it is ful *Sea* at London bridge. Multiply 10. by. 48. so haue ye 480: diuide that by 60. ye haue 8. houres. To that adde 3. whiche is the hour of the full or chaunge appointed for that place. All then cummeth vnto 11 of the clocke hyghe water at London brydge. If any thing remayne they are *Minutes* of an houre. If the houres amounte aboue 12. cast the twelues away, the rest is your request.

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